LEMON GROVE CITY COUNCIL
AGENDA ITEM SUMMARY

Item No. 2.B
Mtg. Date April 5, 2016
Dept. Public Works

Item Title: **Construction Management Services for the Lemon Grove Realignment Project**

Staff Contact: Mike James, Public Works Director and Edgar Camerino, Project Manager

Recommendation:

Adopt a resolution (**Attachment B**) awarding an agreement to provide construction management services for the Lemon Grove Avenue Realignment Project to Infrastructure Engineering Corporation.

Item Summary:

In support of the city's five year capital improvement program (CIP), the city invited firms to respond to a request for proposals (RFP) as the construction manager for the Lemon Grove Avenue Realignment Project (Contract No. 2016 – 14). The RFP was publically advertised on February 25, 2016. The city held a mandatory pre-bid meeting on March 8, 2016, in which five firms attended. On March 17, 2016, the city received one response to the RFP from Infrastructure Engineering Corporation (IEC).

Staff thoroughly reviewed IEC's proposal, cost estimate, and conducted reference checks and recommends that an agreement (**Attachment C**) is awarded to IEC for an amount not to exceed $384,766. The project budget includes a contingency amount of $35,000 in addition to the proposed amount of $349,766. The staff report (**Attachment A**) further details the selection process, award recommendation, and justification for the construction management services project budget.

Fiscal Impact:

$384,766 is budgeted from Fund 64-7130 – CIP Lemon Grove Realignment during the Fiscal Year 2015-16 through Fiscal Year 2016-17 years.

Environmental Review:

☒ Not subject to review
☐ Negative Declaration
☐ Categorical Exemption, Section
☐ Mitigated Negative Declaration

Public Information:

☒ None
☐ Newsletter article
☐ Notice to property owners within 300 ft.
☐ Notice published in local newspaper
☐ Neighborhood meeting

Attachments:

A. Staff Report
B. Resolution with Agreement
C. IEC Proposal

LEMON GROVE CITY COUNCIL
STAFF REPORT

Item No. 2.B

Mtg. Date April 5, 2016

Item Title: **Construction Management Services for the Lemon Grove Realignment Project**

Staff Contact: Mike James, Public Works Director
Edgar Camerino, Project Manager

Discussion:

In support of the city's five year capital improvement program (CIP), the city issued a request for proposals (RFP) inviting qualified construction management firms to submit a proposal as the construction manager for the Lemon Grove Avenue Realignment Project (Contract No. 2016 – 14). The RFP was publically advertised on February 25, 2016 via the eBidboard. The engineer's estimate for the project was established at $350,000. In order to better facilitate the projects questions and requests for information the city held a mandatory pre-bid meeting on March 8, 2016. At that meeting, five firms attended. Those firms were Swinerton Management Consulting, Kleinfelder/Simon Wong Engineering, Infrastructure Engineering Corporation, Firm 4 Project Professionals Corporation, and 5Minnali Engineering Corporation.

On March 17, 2016, the City received a response to the RFP from Infrastructure Engineering Corporation (IEC) which is located in Poway, California. Staff reviewed a number of areas in order to determine if the submitting entity is a responsive and responsible bidder. In this instance, IEC successfully submitted a complete and timely proposal. All references contained in the proposal provided positive feedback and if given the opportunity to work with IEC again in the future each reference commented that it would.

While IEC was the only firm that responded to the RFP, staff does not recommend re-advertising the RFP. The following reasons support staff recommendation to award an agreement to IEC.

Project Team: IEC's proposed team collectively brings over 20 years experience per team member. Each team member focuses on key construction management tasks that include: quality assurance/quality control review, project management/construction management, mass grading inspection, site civil inspection, and geotechnical and materials engineering.

Unique Approach: IEC reviewed all available documents, plans and specifications, visited the project site, and discussed the project with city staff to formulate a plan that staff feels will assist city staff very well in order to complete this project in a timely and safe manner.

Construction Management Experience: Since 2002, IEC has provided local infrastructure engineering and construction services to multiple local entities that include:

City of Carlsbad	City of Vista
City of Coronado	City of San Diego
City of Del Mar	City of Solana Beach

Attachment A

City of La Mesa	Olivenhain Municipal Water District
City of Lemon Grove	Padre Dam Municipal Water District
City of National City	Vallecitos Water District
City of Oceanside	

The most recent projects listed by IEC that area directly applicable to the LGA Realignment Project were also listed in the proposal (pages 31-35) and they included the following projects:

Organization	*Project Description*	*Value*
City of Solana Beach	Highway 101 West Side Imp. Project	$6 million
City of La Mesa	Smart Growth Phase 3, Allison Ave.	$1.3 million
City of La Mesa	Street Rehab/Utility Undergrounding	$5.7 million
City of La Mesa	Smart Growth Phase 2, Univ. Ave.	$1 million
City of La Mesa	Sewer Replacement/Rehabilitation	$5 million
CALTRANS	Interstate 805 Widening	$6.8 million

Change Order History: An interesting component of IECs proposal included a summary of change order amounts on recent projects. The projects displayed in the table shown on page 37 of Attachment C include projects that are of similar size and/or scope as the LGA Realignment project, and included the proposed construction manager from IEC.

When summarizing the four projects with a total original contract amount of $9,354,842, the average percent total changed equaled 8.325% or $790,875 total. And those were made with an average of six change orders per project.

Staff feels that the change order summary provided by IEC demonstrates an effective quality control program that values the plans and specifications as originally bid in each example. The average change order of 8.325% is less than the city's average project budget allocation of 10%.

Letters of Support:

Another unique component of IEC's proposal was the section that contained letters of support from private businesses and Padre Dam Water District that were impacted from construction projects. This was a critical component to the response because staff wanted to insure that any firm awarded this agreement would facilitate a clear and timely line of communication to all residents and businesses impacted by this construction project.

In moving forward, staff recommends the following project budget for the Council's consideration:

Description	**Amount**	**Comments**
Construction Management	$349,766	
Geotech/Material Testing	$0	$21,566 is contained within the construction management estimate.
Contingency	$35,000	Approximately 10% of the cost estimate
Project Budget	**$384,766**	

At this time staff remains cautiously optimistic with the single response reviewed from IEC. While only one response was received, staff concluded that IEC brings forward a number of

benefits that will complement the city's oversight for the LGA Realignment Project. Some of those benefits include:

- Very familiar with the City, engineering staff, and has recent experience working on the most recent sewer lining project and design of the next sewer replacement project, and
- A well experienced team that is prepared and will be present to complete the project, and
- All reference checks were positive and supportive.

It was also important to predict why the four other firms that attended the mandatory pre-bid meeting did not submit a proposal. In close discussions with the City's project engineer from Rick Engineering Company the following items were identified as possible drawbacks to this project when viewed from outside firms:

- The project has a small budget for a relative large amount of coordination, and
- Multiple large entities (e.g. MTS, SANDAG, CALTRANS, SDG&E, AT&T, Helix Water District) are integrally involved in a relatively smaller construction project, and
- The private sector market is showing signs of recovering and, as a result, firms are not as aggressively seeking projects that may not yield a specific return.

In conclusion, staff feels confident that IEC has shown that it can successfully manage the LGA Realignment project. It conveyed prior relevant experience, an experienced project team, a reasonable methodology, and its proposal is in line with the City's engineer's cost estimate.

Conclusion:

That the City Council adopt a resolution (**Attachment B**) awarding an agreement (**Attachment B – Exhibit 1**) to provide construction management services for the Lemon Grove Avenue Realignment Project to Infrastructure Engineering Corporation in an amount not to exceed $384,766.00.

Attachment B

RESOLUTION NO. 2016 -

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LEMON GROVE, CALIFORNIA AWARDING AN AGREEMENT TO PROVIDE CONSTRUCTION MANAGEMENT SERVICES FOR THE LEMON GROVE REALIGNMENT PROJECT TO INFRASTRUCTURE ENGINEERING CORPORATION

WHEREAS, the Lemon Grove Realignment Project was scheduled as a part of the city's five year capital improvement program; and

WHEREAS, a request for proposals was publicly advertised and one response was received from Infrastructure Engineering Corporation (IEC); and

WHEREAS, staff concluded that IEC submitted a responsive and responsible proposal in the amount of $349,766.00; and

WHEREAS, a project budget is approved at $384,766.00, which accounts for the construction management services ($321,766.00), geotechnical and material testing services ($21,566.00), and a ten percent contingency (or $35,000); and

WHEREAS, the City Council finds it in the public interest that an agreement for said services is awarded to IEC.

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Lemon Grove, California hereby:

1. Awards an agreement (**Exhibit 1**) to IEC for $384,766.00; and
2. Authorizes the City Manager or designee to execute agreement and manage all project documentation.

/ / / / /
/ / / / /

AGREEMENT
BY AND BETWEEN
THE CITY OF LEMON GROVE
AND
INFRASTRUCTURE ENGINEERING CORPORATION

THIS AGREEMENT is approved and effective upon the date of the last signature, by and between the CITY OF LEMON GROVE, a municipal corporation (the "CITY"), and Infrastructure Engineering Corporation (IEC), (the "CONTRACTOR").

R E C I T A L S

WHEREAS, the CITY desires to employ a CONTRACTOR to provide construction management, inspection and geotechnical services for the Lemon Grove Avenue Realignment Project.

WHEREAS, the CITY has determined that the CONTRACTOR is a corporation and is qualified by experience and ability to perform the services desired by the CITY, and the CONTRACTOR is willing to perform such services.

NOW, THEREFORE, THE PARTIES HERETO DO MUTUALLY AGREE AS FOLLOWS:

1. **ENGAGEMENT OF CONTRACTOR.** The CITY hereby agrees to engage the CONTRACTOR and the CONTRACTOR hereby agrees to perform the services hereinafter set forth in accordance with all terms and conditions contained herein.

The CONTRACTOR represents that all services required hereunder will be performed directly by the CONTRACTOR or under direct supervision of the CONTRACTOR.

2. **SCOPE OF SERVICES.** The CONTRACTOR will perform services as set forth on pages 12-18 of Exhibit "A" (Attached).

The CONTRACTOR shall be responsible for all research and reviews related to the work and shall not rely on personnel of the CITY for such services, except as authorized in advance by the CITY. The CONTRACTOR shall appear at progress meetings cited in Exhibit "A" to keep staff advised of the progress on the project.

The CITY may unilaterally, or upon request from the CONTRACTOR, from time to time reduce or increase the Scope of Services to be performed by the CONTRACTOR under this Agreement. Upon doing so, the CITY and the CONTRACTOR agree to meet in good faith and confer for the purpose of negotiating a corresponding reduction or increase in the compensation associated with said change

in services, not to exceed the total amount of Twenty Thousand Dollars ($20,000) and extend time for completion by more than a total of fifteen (15) days.

3. **PROJECT COORDINATION AND SUPERVISION.**

Edgar Camerino hereby is designated as the Project Coordinator for the CITY and will monitor the progress and execution of this Agreement. The CONTRACTOR shall assign a single Project Director to provide supervision and have overall responsibility for the progress and execution of this Agreement for the CONTRACTOR. Scott Adamson thereby is designated as the Project Director for the CONTRACTOR.

4. **COMPENSATION AND PAYMENT.** The compensation for the CONTRACTOR shall be based on monthly billings covering actual work performed. Billings shall include labor classifications, respective rates, hours worked and also materials, if any. The total cost for all work described (including project contingency funds) shown on page 18 of Exhibit " A" shall not exceed three hundred eighty-four thousand seven hundred sixty-six dollars ($384,766) (the Base amount) without prior written authorization from the Edgar Camerino. Monthly invoices will be processed for payment and remitted within thirty (30) days from receipt of invoice, provided that work is accomplished consistent with Exhibit "A" as determined by and in the sole discretion of the CITY.

The CONTRACTOR shall maintain all books, documents, papers, employee time sheets, accounting records, and other evidence pertaining to costs incurred and shall make such materials available at its office at all reasonable times during the term of this Agreement and for three (3) years from the date of final payment under this Agreement, for inspection by the CITY and for furnishing of copies to the CITY, if requested.

5. **LENGTH OF AGREEMENT.** This agreement will last three hundred sixty-five DAYS (365) days from the approved and executed date or until all work has been completed by the CONTRACTOR and accept by the DISTRICT, which even occurs first.

6. **DISPOSITION AND OWNERSHIP OF DOCUMENTS.** The Memoranda, Reports, Maps, Drawings, Plans, Specifications and other documents prepared by the CONTRACTOR for this Project, whether paper or electronic, shall become the property of the CITY for use with respect to this Project, and shall be turned over to the CITY upon completion of the Project, or any phase thereof, as contemplated by this Agreement.

Contemporaneously with the transfer of documents, the CONTRACTOR hereby assigns to the CITY and CONTRACTOR thereby expressly waives and disclaims, any copyright in, and the right to reproduce, all written material, drawings, plans, specifications or other work prepared under this agreement, except upon the CITY's prior authorization regarding reproduction, which authorization shall not be

unreasonably withheld. The CONTRACTOR shall, upon request of the CITY, execute any further document(s) necessary to further effectuate this waiver and disclaimer.

The CONTRACTOR agrees that the CITY may use, reuse, alter, reproduce, modify, assign, transfer, or in any other way, medium or method utilize the CONTRACTOR's written work product for the CITY's purposes, and the CONTRACTOR expressly waives and disclaims any residual rights granted to it by Civil Code Sections 980 through 989 relating to intellectual property and artistic works.

Any modification or reuse by the CITY of documents, drawings or specifications prepared by the CONTRACTOR shall relieve the CONTRACTOR from liability under Section 14 but only with respect to the effect of the modification or reuse by the CITY, or for any liability to the CITY should the documents be used by the CITY for some project other than what was expressly agreed upon within the Scope of this project, unless otherwise mutually agreed.

7. **INDEPENDENT CONTRACTOR.** Both parties hereto in the performance of this Agreement will be acting in an independent capacity and not as agents, employees, partners or joint venturers with one another. Neither the CONTRACTOR nor the CONTRACTOR'S employees are employees of the CITY and are not entitled to any of the rights, benefits, or privileges of the CITY's employees, including but not limited to retirement, medical, unemployment, or workers' compensation insurance.

This Agreement contemplates the personal services of the CONTRACTOR and the CONTRACTOR's employees, and it is recognized by the parties that a substantial inducement to the CITY for entering into this Agreement was, and is, the professional reputation and competence of the CONTRACTOR and its employees. Neither this Agreement nor any interest herein may be assigned by the CONTRACTOR without the prior written consent of the CITY. Nothing herein contained is intended to prevent the CONTRACTOR from employing or hiring as many employees, or subcontractors, as the CONTRACTOR may deem necessary for the proper and efficient performance of this Agreement. All agreements by CONTRACTOR with its subcontractor(s) shall require the subcontractor to adhere to the applicable terms of this Agreement.

8. **CONTROL.** Neither the CITY nor its officers, agents or employees shall have any control over the conduct of the CONTRACTOR or any of the CONTRACTOR's employees except as herein set forth, and the CONTRACTOR expressly agrees not to represent that the CONTRACTOR or the CONTRACTOR's agents, servants, or employees are in any manner agents, servants or employees of the CITY, it being understood that the CONTRACTOR, its agents, servants, and employees are as to the CITY wholly independent contractors and that the CONTRACTOR's obligations to the CITY are solely such as are prescribed by this Agreement.

9. **COMPLIANCE WITH APPLICABLE LAW.** The CONTRACTOR, in the performance of the services to be provided herein, shall comply with all applicable State and Federal statutes and regulations, and all applicable ordinances, rules and regulations of the CITY OF LEMON GROVE, whether now in force or subsequently enacted. The CONTRACTOR, and each of its subcontractors, shall obtain and maintain a current CITY OF LEMON GROVE business license prior to and during performance of any work pursuant to this Agreement.

10. **LICENSES, PERMITS, ETC.** The CONTRACTOR represents and covenants that it has all licenses, permits, qualifications, and approvals of whatever nature that are legally required to practice its profession. The CONTRACTOR represents and covenants that the CONTRACTOR shall, at its sole cost and expense, keep in effect at all times during the term of this Agreement, any license, permit, or approval which is legally required for the CONTRACTOR to practice its profession.

11. **STANDARD OF CARE.**

A. The CONTRACTOR, in performing any services under this Agreement, shall perform in a manner consistent with that level of care and skill ordinarily exercised by members of the CONTRACTOR'S trade or profession currently practicing under similar conditions and in similar locations. The CONTRACTOR shall take all special precautions necessary to protect the CONTRACTOR's employees and members of the public from risk of harm arising out of the nature of the work and/or the conditions of the work site.

B. Unless disclosed in writing prior to the date of this agreement, the CONTRACTOR warrants to the CITY that it is not now, nor has it for the five (5) years preceding, been debarred by a governmental agency or involved in debarment, arbitration or litigation proceedings concerning the CONTRACTOR's professional performance or the furnishing of materials or services relating thereto.

C. The CONTRACTOR is responsible for identifying any unique products, treatments, processes or materials whose availability is critical to the success of the project the CONTRACTOR has been retained to perform, within the time requirements of the CITY, or, when no time is specified, then within a commercially reasonable time. Accordingly, unless the CONTRACTOR has notified the CITY otherwise, the CONTRACTOR warrants that all products, materials, processes or treatments identified in the project documents prepared for the CITY are reasonably commercially available. Any failure by the CONTRACTOR to use due diligence under this sub-paragraph will render the CONTRACTOR liable to the CITY for any increased costs that result from the CITY's later inability to obtain the specified items or any reasonable substitute within a price range that allows for project completion in the time frame specified or, when not specified, then within a commercially reasonable time.

12. **NON-DISCRIMINATION PROVISIONS.** The CONTRACTOR shall not discriminate against any employee or applicant for employment because of age, race, color, ancestry, religion, sex, sexual orientation, marital status, national origin, physical handicap, or medical condition. The CONTRACTOR will take positive action to insure that applicants are employed without regard to their age, race, color, ancestry, religion, sex, sexual orientation, marital status, national origin, physical handicap, or

medical condition. Such action shall include but not be limited to the following: employment, upgrading, demotion, transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. The CONTRACTOR agrees to post in conspicuous places available to employees and applicants for employment any notices provided by the CITY setting forth the provisions of this non-discrimination clause.

13. **CONFIDENTIAL INFORMATION.** The CITY may from time to time communicate to the CONTRACTOR certain confidential information to enable the CONTRACTOR to effectively perform the services to be provided herein. The CONTRACTOR shall treat all such information as confidential and shall not disclose any part thereof without the prior written consent of the CITY. The CONTRACTOR shall limit the use and circulation of such information, even within its own organization, to the extent necessary to perform the services to be provided herein. The foregoing obligation of this Section 13, however, shall not apply to any part of the information that (i) has been disclosed in publicly available sources of information; (ii) is, through no fault of the CONTRACTOR, hereafter disclosed in publicly available sources of information; (iii) is already in the possession of the CONTRACTOR without any obligation of confidentiality; (iv) has been or is hereafter rightfully disclosed to the CONTRACTOR by a third party, but only to the extent that the use or disclosure thereof has been or is rightfully authorized by that third party; or (v) is disclosed according to law or court order.

The CONTRACTOR shall not disclose any reports, recommendations, conclusions or other results of the services or the existence of the subject matter of this Agreement without the prior written consent of the CITY. In its performance hereunder, the CONTRACTOR shall comply with all legal obligations it may now or hereafter have respecting the information or other property of any other person, firm or corporation.

CONTRACTOR shall be liable to CITY for any damages caused by breach of this condition, pursuant to the provisions of Section 14.

14. **INDEMNIFICATION AND HOLD HARMLESS.** The CONTRACTOR shall indemnify, defend, and hold harmless the CITY, and its officers, officials, agents and employees from any and all claims, demands, costs or liability that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT, its employees, agents, and subcontractors in the performance of services under this Agreement. CONTRACTOR's duty to indemnify under this section shall not include liability for damages for death or bodily injury to persons, injury to property, or other loss, damage or expense arising from the sole negligence or willful misconduct by the CITY or its elected officials, officers, agents, and employees. CONTRACTOR's indemnification obligations shall not be limited by the insurance provisions of this Agreement. The CITY AND CONTRACTOR expressly agree that any payment, attorney's fees, costs or expense CITY incurs or makes to or on behalf of an injured employee under the CITY 's self-administered workers' compensation is included as a loss, expense, or cost for the purposes of this section, and that this section will survive the expiration or early termination of this Agreement.

Attachment B – Exhibit 1

15. **WORKERS' COMPENSATION.** The CONTRACTOR shall comply with all of the provisions of the Workers' Compensation Insurance and Safety Acts of the State of California, the applicable provisions of Division 4 and 5 of the California Government Code and all amendments thereto; and all similar state or Federal acts or laws applicable; and shall indemnify, and hold harmless the CITY and its officers, and employees from and against all claims, demands, payments, suits, actions, proceedings and judgments of every nature and description, including reasonable attorney's fees and defense costs presented, brought or recovered against the CITY or its officers, employees, or volunteers, for or on account of any liability under any of said acts which may be incurred by reason of any work to be performed by the CONTRACTOR under this Agreement.

16. **INSURANCE.** The CONTRACTOR, at its sole cost and expense, shall purchase and maintain, and shall require its subcontractors, when applicable, to purchase and maintain throughout the term of this agreement, the following insurance policies:

☒ A. If checked, Professional Liability Insurance (errors and omissions) with minimum limits of $1,000,000 per occurrence.

B. Automobile insurance covering all bodily injury and property damage incurred during the performance of this Agreement, with a minimum coverage of $1,000,000 combined single limit per accident. Such automobile insurance shall include non-owned vehicles.

C. Comprehensive general liability insurance, with minimum limits of $1,000,000 combined single limit per occurrence, covering all bodily injury and property damage arising out of its operation under this Agreement.

D. Workers' compensation insurance covering all of CONTRACTOR's employees.

E. The aforesaid policies shall constitute primary insurance as to the CITY, its officers, employees, and volunteers, so that any other policies held by the CITY shall not contribute to any loss under said insurance. Said policies shall provide for thirty (30) days prior written notice to the CITY of cancellation or material change.

F. Said policies, except for the professional liability and worker's compensation policies, shall name the CITY and its officers, agents and employees as additional insureds.

G. If required insurance coverage is provided on a "claims made" rather than "occurrence" form, the CONTRACTOR shall maintain such insurance coverage for three years after expiration of the term (and any extensions) of this Agreement.

H. Any aggregate insurance limits must apply solely to this Agreement.

I. Insurance shall be written with only California admitted companies which hold a current policy holder's alphabetic and financial size category rating of not less than A VIII according to the current Best's Key Rating Guide, or a company equal financial stability that is approved by the CITY.

J. This Agreement shall not take effect until certificate(s) or other sufficient proof that these insurance provisions have been complied with, are filed with

and approved by the CITY. If the CONTRACTOR does not keep all of such insurance policies in full force and effect at all times during the terms of this Agreement, the CITY may elect to treat the failure to maintain the requisite insurance as a breach of this Agreement and terminate the Agreement as provided herein.

17. **LEGAL FEES.** If any party brings a suit or action against the other party arising from any breach of any of the covenants or agreements or any inaccuracies in any of the representations and warranties on the part of the other party arising out of this Agreement, then in that event, the prevailing party in such action or dispute, whether by final judgment or out-of-court settlement, shall be entitled to have and recover of and from the other party all reasonable costs and expenses of suit, including reasonable attorneys' fees.

For purposes of determining who is to be considered the prevailing party, it is stipulated that attorney's fees incurred in the prosecution or defense of the action or suit shall not be considered in determining the amount of the judgment or award. Attorney's fees to the prevailing party if other than the CITY shall, in addition, be limited to the amount of attorney's fees incurred by the CITY in its prosecution or defense of the action, irrespective of the actual amount of attorney's fees incurred by the prevailing party.

18. **MEDIATION/ARBITRATION.** If a dispute arises out of or relates to this Agreement, or the breach thereof, the parties agree first to try, in good faith, to settle the dispute by mutual negotiation between the principles, and failing that through nonbinding mediation in San Diego, California, in accordance with the Commercial Mediation Rules of the American Arbitration Association (the "AAA"). The costs of mediation shall be borne equally by the parties.

19. **TERMINATION.** A. This Agreement may be terminated with or without cause by the CITY. Termination without cause shall be effective only upon 30-day's written notice to the CONTRACTOR. During said 30-day period the CONTRACTOR shall perform all services in accordance with this Agreement. The Contractor may terminate this agreement upon thirty (30) days prior notice in the event of a continuing and material breach by the City of its obligations under this Agreement including but not limited to payment of invoices.

B. This Agreement may also be terminated immediately by the CITY for cause in the event of a material breach of this Agreement that is not cured to the City's satisfaction within a ten (10) day prior cure period, or material misrepresentation by the CONTRACTOR in connection with the formation of this Agreement or the performance of services, or the failure to perform services as directed by the CITY.

C. Termination with or without cause shall be effected by delivery of written Notice of Termination to the CONTRACTOR as provided for herein.

D. In the event of termination, all finished or unfinished Memoranda Reports, Maps, Drawings, Plans, Specifications and other documents prepared by the CONTRACTOR, whether paper or electronic, shall immediately become the property of and be delivered to the CITY, and the CONTRACTOR shall be entitled to receive just and equitable compensation for any work satisfactorily completed on such documents and other materials up to the effective date of the Notice of Termination, not to exceed

the amounts payable hereunder, and less any damages caused the CITY by the CONTRACTOR's breach, if any. Thereafter, ownership of said written material shall vest in the CITY all rights set forth in Section 6.

E. The CITY further reserves the right to immediately terminate this Agreement upon: (1) the filing of a petition in bankruptcy affecting the CONTRACTOR; (2) a reorganization of the CONTRACTOR for the benefit of creditors; or (3) a business reorganization, change in business name or change in business status of the CONTRACTOR.

20. **NOTICES.** All notices or other communications required or permitted hereunder shall be in writing, and shall be personally delivered; or sent by overnight mail (Federal Express or the like); or sent by registered or certified mail, postage prepaid, return receipt requested; or sent by ordinary mail, postage prepaid; or telegraphed or cabled; or delivered or sent by telex, telecopy, facsimile or fax; and shall be deemed received upon the earlier of (i) if personally delivered, the date of delivery to the address of the person to receive such notice, (ii) if sent by overnight mail, the business day following its deposit in such overnight mail facility, (iii) if mailed by registered, certified or ordinary mail, five (5) days (ten (10) days if the address is outside the State of California) after the date of deposit in a post office, mailbox, mail chute, or other like facility regularly maintained by the United States Postal Service, (iv) if given by telegraph or cable, when delivered to the telegraph company with charges prepaid, or (v) if given by telex, telecopy, facsimile or fax, when sent. Any notice, request, demand, direction or other communication delivered or sent as specified above shall be directed to the following persons:

To the CITY: Edgar Camerino
CITY OF LEMON GROVE
3232 Main Street
Lemon Grove, CA 91945-1701

To the CONTRACTOR: Scott Adamson
Infrastructure Engineering Corporation
14271 Danielson Street
Poway, CA 92064

Notice of change of address shall be given by written notice in the manner specified in this Section. Rejection or other refusal to accept or the inability to deliver because of changed address of which no notice was given shall be deemed to constitute receipt of the notice, demand, request or communication sent. Any notice, request, demand, direction or other communication sent by cable, telex, telecopy, facsimile or fax must be confirmed within forty-eight (48) hours by letter mailed or delivered as specified in this Section.

21. **CONFLICT OF INTEREST AND POLITICAL REFORM ACT OBLIGATIONS.** During the term of this Agreement, the CONTRACTOR shall not perform services of any kind for any person or entity whose interests conflict in any way

with those of the CITY OF LEMON GROVE. The CONTRACTOR also agrees not to specify any product, treatment, process or material for the project in which the CONTRACTOR has a material financial interest, either direct or indirect, without first notifying the CITY of that fact. The CONTRACTOR shall at all times comply with the terms of the Political Reform Act and the Lemon Grove Conflict of Interest Code. The CONTRACTOR shall immediately disqualify itself and shall not use its official position to influence in any way any matter coming before the CITY in which the CONTRACTOR has a financial interest as defined in Government Code Section 87103. The CONTRACTOR represents that it has no knowledge of any financial interests that would require it to disqualify itself from any matter on which it might perform services for the CITY.

☐ If checked, the CONTRACTOR shall comply with all of the reporting requirements of the Political Reform Act and the CITY OF LEMON GROVE Conflict of Interest Code. Specifically, the CONTRACTOR shall:

1. Go to www.fppc.ca.gov
2. Download the Form 700: Statement of Economic Interests
3. Completely fill out the form
4. Submit the form to the Public Works Department with the signed contracts.

The CONTRACTOR shall be strictly liable to the CITY for all damages, costs or expenses the CITY may suffer by virtue of any violation of this Paragraph 21 by the CONTRACTOR.

22. **MISCELLANEOUS PROVISIONS.**

A. *Computation of Time Periods.* If any date or time period provided for in this Agreement is or ends on a Saturday, Sunday or federal, state or legal holiday, then such date shall automatically be extended until 5:00 p.m. Pacific Time of the next day which is not a Saturday, Sunday or federal, state or legal holiday.

B. *Counterparts.* This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, but all of which, together, shall constitute but one and the same instrument.

C. *Captions.* Any captions to, or headings of, the sections or subsections of this Agreement are solely for the convenience of the parties hereto, are not a part of this Agreement, and shall not be used for the interpretation or determination of the validity of this Agreement or any provision hereof.

D. *No Obligations to Third Parties.* Except as otherwise expressly provided herein, the execution and delivery of this Agreement shall not be deemed to confer any rights upon, or obligate any of the parties hereto, to any person or entity other than the parties hereto.

E. *Exhibits and Schedules.* The Exhibits and Schedules attached hereto are hereby incorporated herein by this reference for all purposes.

F. *Amendment to this Agreement.* The terms of this Agreement may not be modified or amended except by an instrument in writing executed by each of the parties hereto.

G. *Waiver.* The waiver or failure to enforce any provision of this Agreement shall not operate as a waiver of any future breach of any such provision or any other provision hereof.

H. *Applicable Law.* This Agreement shall be governed by and construed in accordance with the laws of the State of California.

I. *Entire Agreement.* This Agreement supersedes any prior agreements, negotiations and communications, oral or written, and contains the entire agreement between the parties as to the subject matter hereof. No subsequent agreement, representation, or promise made by either party hereto, or by or to an employee, officer, agent or representative of any party hereto shall be of any effect unless it is in writing and executed by the party to be bound thereby.

J. *Successors and Assigns.* This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the parties hereto.

K. *Construction.* The parties acknowledge and agree that (i) each party is of equal bargaining strength, (ii) each party has actively participated in the drafting, preparation and negotiation of this Agreement, (iii) each such party has consulted with or has had the opportunity to consult with its own, independent counsel and such other professional advisors as such party has deemed appropriate, relative to any and all matters contemplated under this Agreement, (iv) each party and such party's counsel and advisors have reviewed this Agreement, (v) each party has agreed to enter into this Agreement following such review and the rendering of such advice, and (vi) any rule or construction to the effect that ambiguities are to be resolved against the drafting party shall not apply in the interpretation of this Agreement, or any portions hereof, or any amendments hereto.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first above written.

CITY OF LEMON GROVE

_____
(Corporation – signatures of two corporate officers)
(Partnership – one signature)
(Sole proprietorship – one signature)

By: _____
Lydia Romero

City Manager
(Title)

_____
(Date)

By: _____
(Name)

_____
(Title)

_____
(Date)

_____
(Name)

_____
(Title)

_____
(Date)

APPROVED AS TO FORM:

By: _____
James Lough

City Attorney
(Title)

_____
(Date)

By: _____
(Name)

_____
(Title)

_____
(Date)

Attachment B – Exhibit 1

Project Approach

Exhibit 'A'

Introduction

Our overriding approach to successful construction management of the Lemon Grove Avenue Realignment Project is first and foremost to observe and document that the project meets the contract requirements and that the project is completed on time and within budget. IEC's Construction Management and Inspection team has a successful history of providing "full service" management and inspection of similar construction projects. IEC's philosophy is to protect the owner's interests, be fair and understanding of the contractor's issues, and document that the Owner receives a quality product. By facilitating open dialogue between the Owner, Designer, Contractor, and CM team our experience is that most issues can be resolved quickly and easily with minimal adverse impact to the project.

Project Approach

Task 1 - Pre-Construction Phase

IEC's approach to Construction Management is divided into three phases; Pre-Construction, Construction, and Post-Construction. Using this process, the construction management activities will be well coordinated and proceed expeditiously.

Prior to the project being advertised for bid, our Construction Manager, Mr. Scott Adamson will assist the City with review of the contract documents. He will draw on his experience with many similar projects and provide comments regarding items he feels may leave the City exposed to possible claims or schedule impacts. He will also develop an anticipated construction schedule, identifying major milestones and phasing of the overall project.

As part of the pre-construction phase IEC will also develop for, the City's approval, construction forms and communication processes that will be used on the project. Given the overall transportation nature of the project, IEC would suggest that a filing system similar to that presented in the Caltrans Construction Management Manual be used.

Following award of the contract IEC will coordinate and lead a pre-construction conference with the City, Construction Team, Designers, and outside agencies. We will reinforce to the Contractor that the project will be administered in strict accordance with the contract, plans and specifications. The goal of the pre-construction conference will be used to establish a good working relationship and understanding of project requirements that will be used throughout the project.

IEC's construction manager will be available to assist the City in reviewing the Contractor's general condition submittals, such as the initial CPM schedule, Caltrans encroachment permit requirements, Traffic Control submittals, and Schedule of Values. The CPM schedule will be evaluated for appropriate tasks including lead times, milestones, and a logical path that will result in the project being completed within the allotted Contract duration. The awarded Contractor submitted Schedule of Values will also be reviewed for compliance to the Contract Specifications to assess whether the project costs are unusually front end loaded as opposed to distributed equitably in compliance with the approved CPM schedule.

Task 2 - Construction Phase

2.1 Document Control

As a tool to facilitate communications on the project IEC proposes to administer the project using a cloud based project management system. We would utilize Virtual-Project Manager (VPM) which IEC can provide to the City at no additional charge. This user-friendly cloud based program provides current project information to invited members through a password system. The system is accessed through the internet and no special software is required. The systems can be set up to allow users different levels of access or view only access. The web site will store project information including daily reports, photos with descriptions, submittals, RFIs, logs, schedules,

plans, specifications, progress reports, and any other project information. It can be used as an information only tool or can be used to quickly send and process submittals/RFIs and design changes, etc. We've found that these systems can greatly streamline the project administration making the RFI and submittal process much faster than traditional paper only distribution.

2.2 Contract Administration

During the construction phase of the project, our Construction Manager will maintain our firm but fair policy in dealing with the Contractor. Our approach is to be diligent in observing the work and documenting good workmanship. We will stay ahead of the Contractor by alerting him to special project requirements such as the City's standards and testing requirements, public notification requirements, and coordination with other outside agencies such as Caltrans, MTS, and Helix Water District. IEC's Construction Manager will also make a point of working closely on a day to day basis with the Construction team to anticipate and overcome obstacles that may adversely affect the schedule or impact public convenience.

Our Construction Manager will be responsible for coordinating and leading progress meetings with the City, Design Engineer, Contractor, and outside agencies representatives. Meetings items will include at a minimum a four-week look ahead review of the Contractors schedule, current submittals and RFI's, outstanding change-order or field order issues, review of safety and storm water issues on the site, and discussion of public outreach efforts that may need to be made, as well as coordination with utilities and outside agencies.

Immediately prior to commencement of construction our Construction Manager will meet with affected business managers and property owners surrounding the site. Our Construction Manager will maintain regular contact with these stakeholders and provide them with one central contact with regards to their concerns or complaints. We understand the sensitivity of the nature of the surrounding neighborhood on the job and it will be our Construction Manager's responsibility to stay out ahead of the Contractor and mitigate complaints with a proactive approach.

In addition to meeting with City residents, our Construction Manager will communicate regularly with franchise utility and outside agency representatives. Mr. Adamson works regularly with the local franchise utility agencies such as Helix Water District and SDG&E and understands the importance of keeping them up to date on the project as well working with them to protect their infrastructure. Mr. Adamson is also experienced working adjacent to and within the MTS right-of-way, is rail safety certified, and familiar with scheduling and coordinating MTS flaggers and safety personnel. He will work with MTS and the contractor to develop an acceptable ground settlement monitoring procedure, and verify that the procedure is followed to MTS satisfaction.

Utilizing VPM project management system presented above our Construction Manager will closely track and coordinate project documentation. He will verify that contractor submittals and RFIs are dealt with expeditiously in order to help facilitate the Contractor's work efforts. Claims for additional work will be reviewed against the contract documents for validity, accuracy, and method of computing. Valid claims for additional work will be brought to the City with a recommendation. Invalid claims will be rejected. The key to avoiding unnecessary claims and schedule delays is our timely response to Contractor submittals and inquiries.

IEC's Construction Manager will review the Contractor's monthly pay requests. IEC will require detailed descriptions and locations for quantities requested and review these against our own field records to document that only items installed are being invoiced. In anticipation of possible audits from grant funding agencies, all progress payments will be filed with detailed back-up documentation such as materials tickets and graphical records of locations and quantities measured and billed in each billing cycle. Unless approved by the City, no "materials on site" will be paid until installed without the City's prior approval. Budget control and cost forecasting reports will be submitted monthly to the City for review.

Attachment B – Exhibit 1

The Contractor's monthly CPM schedules will be closely reviewed by our Construction Manager for project items and dates and compliance with the Contract Documents including time for submittal reviews and long lead items. These reviews will be performed and submitted with each monthly progress payment. If discrepancies are discovered, the Contractor will be notified to re-submit an accurate CPM schedule. In addition, the Construction Manager will review the Contractor's as-built drawings. If the updated schedule and as-built drawings are not adequate, a day in the progress payment may occur

Labor compliance monitoring will be done by our Construction Manager. The Contractor's certified payroll records will be uploaded to the VPM system and records will be reviewed to verify that proper documentation has been submitted for each week. Records will also be periodically compared to our daily reports to verify that personnel hours and classifications are being recorded correctly. Our Construction Manager will also conduct periodic labor interviews utilizing the Caltrans labor compliance form.

2.3 Construction Inspection Services

As briefly presented in our Statement of Qualifications, IEC has teamed with Southern California Soil & Testing (SCS&T) to provide site inspection services. It's our opinion that the first portion of the project will be primarily grading which will require a geotechnical inspection professional with the equipment and capability to perform compaction testing to be on site full time. In order to minimize the duplication of efforts, SCS&T has committed one of their most experienced inspectors to be on site and act as the overall site inspector during this period. Our construction manager, Mr. Scott Adamson will also be on site daily to work closely with the SCS&T provided inspector to ensure that all required documentation is being performed as well as assisting with inspections outside of a geotechnical nature.

As the project progresses from grading to underground utility installation and surface improvement installation phases, IEC will mobilize one of our Senior Construction Inspectors, Mr. Thomas Schechter to provide day to day inspection services. At that point compaction testing and materials sampling will be done on an as-needed basis by SCS&T.

Regardless of whom the primary inspector may be at any given time, IEC will manage this project with the same proven construction inspections methods we have developed over the course of many similar projects. Our inspectors will be on site daily to monitor construction activities and materials for compliance with approved plans, specifications, and submittals, documenting that the proper QA/QC testing and inspection is done, maintaining constant communication with the contractor and CM staff, and documentation of daily activities through the preparation of a detailed daily report and photo documentation. The following is a list of the minimum items our inspectors will be monitoring on a daily basis and noting in their dailies:

- Track the contractor's labor, equipment, and materials used on the project.
- Verify proper signage, detours, and road closures have been installed per the approved Traffic Control Plan.
- Verify that proper notification and "No Park" procedures are being followed.
- Verify job-site conditions and activities are in conformance with the various encroachment permit requirements.
- Document that construction activities are not violating environmental or discharge requirements.
- Review that Potholing of existing utilities has been completed and conflicts have been checked prior to allowing trenching operations.

- Spot-check elevations and staking in order to verify installations match the approved plans.
- Verify that Materials and Equipment match the Approved Submittals
- Document that Materials arrive at the site undamaged and are properly stored.
- Review the Bypass system on a daily basis to observe that the Contractor is operating according to the approved Bypass plan and that the system is in good working order.
- Perform daily photo documentation of all major construction activities taking place, as well as any items identified as a potential claim.
- Track time and materials utilized in Force Account work or disputed work for future evaluation of Change Requests.
- Maintain a separate red-line set of drawings detailing actual construction of the project for review with the Contractors own red-lines.

Due to the heavy commuter traffic flows on Lemon Grove Avenue and Broadway, IEC understands that traffic control will be an item of extreme importance. IEC inspectors will make sure they have the current approved traffic control plans with them while on site and review signage and detours on a daily basis. Suggestions for improvement will be brought to the City's and Contractor's attention for review and possible implementation. Traffic control inspection will also include monitoring the posting of "No-Park" signs. Reviewing the indicated dates and making sure they give clear direction to the residents as well as making sure that no more than the area needed is posted. Our inspector will also coordinate closely the Caltrans inspection staff to verify that conditions of the encroachment permit are being implemented.

Pre-existing site conditions will be documented utilizing a digital camera. By using video format, items of interest will be shown in context and locations will be easily identified for future reference. During construction, our inspectors will document construction activities using a digital camera on a daily basis. Particular items of interest will include critical path activities of the day, potential claims, and overall site condition. Videos and photos would be uploaded to the VPM system for access by all parties throughout the project.

IEC's construction team will continually review the required notification procedures and check that these measures are being taken as the work progresses. We will also strive to identify additional measures we feel may aid the City in alleviating misunderstandings and frustration from the affected residents. Complaints from the surrounding community will be addressed promptly and noted in daily reports. We want businesses and residents completely aware of any expected impact out of the norm. IEC's goal is to address all complaints immediately to the satisfaction of the residents and business owners before the need of any further City interaction is required. In addition, IEC understands the sensitivity of constant communication with City staff regarding major complaints or incidents on the project. City staff will be immediately notified of incidents which cannot be easily and immediately resolved in the field, or which may require further involvement from City staff or Council members.

2.4 Geotechnical/Materials Testing

As previously stated IEC has teamed with SCS&T to provide geotechnical and materials testing services. Compaction testing services will be performed using the "nuclear gauge" method. SCS&T personnel will also perform materials quality control sampling and laboratory testing in conformance with the requirements of the project specifications.

Senior Materials Engineer, Mr. Scott Vacula PE will be available to provide guidance on geotechnical issues as well and recommendations regarding construction material issues that may arise on the project. Mr. Vacula will also

Attachment B – Exhibit 1

be responsible to develop a materials sampling and testing plan for review and approval with the City. The plan will address construction materials to be sampled and tested as well as frequency and test types.

Task 3 - Prost Construction Services

3.1 Project Close-out

IEC's construction management team understands the critical nature of this phase. Our goal is a clean and Construction Manager will take a pro-active approach at processing close out documentation including completion of final punch list items, guarantees/warranties, subcontractor liens, retention, and final acceptance/certificates of completion, orderly transfer of key records and documents, resolution of outstanding issues, final payment preparation and processing along with final acceptance of record drawings. Close-out items are important to address fully so the City has a final project that is free from encumbrances.

3.2 Final Project Documentation

Upon completion of the project, IEC will provide the City with both hard and electronic copies of project documentation. SCS&T will prepare a final as graded and materials testing report in order to document compaction testing and laboratory testing results. Our construction team will review the contractor's as-built plans for final acceptance and coordinate with the design engineer to have changes recorded.

Fee Estimate

IEC is pleased to present this estimated fee for the Construction Management and Inspection of the Lemon Grove Avenue Realignment Project. In developing this estimate we have reviewed the Request for Proposals (RFP), project plans and specifications, visited the site, and called upon our experience with similar projects. We have also taken into account available budget presented by the City. With this in mind we have deeply discounted our standard hourly rates, and creatively teamed with Southern California Soil & Testing to provide the most cost effective proposal we could reasonably present.

Our estimated not to exceed fee for the proposed scope of work is $ 349,766.000 (Three Hundred, Forty Nine Thousand, Seven Hundred and Sixty-six Dollars). We have has also included a breakdown of anticipated hours by staff type that we feel will be dedicated to each task outlined in our scope.

As presented above the proposed schedule and corresponding fee has been based on the construction schedule parameters given by the City in the RFP and pre-proposal meeting. Our understanding is that the construction schedule is to be of a 12 calendar month duration, and constructed during a typical daily construction schedule of Monday through Friday, 7am to 4pm. Our fees will be billed on a time and material basis at the hourly rate shown, and are inclusive of all vehicle, travel, mileage, and equipment charges. The City will only pay for those services provided. Should the construction schedule be extended beyond a 12 calendar month duration, or should extended hours such as extended shifts or weekend work be required IEC will need to negotiate additional budget with the City.

Estimated Schedule	May 2016	June 2016	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	March 2017	Apr 2017	May 2017	Total Hrs
Bid Assistance														
Clear & Grub														
Grading														
Underground														
Surface Improvement														
Rob Weber *Principal-in-Charge*	2			2			2			2			2	10
Scott Adamson *Construction Mgr*	40	80	40	40	40	40	40	40	40	40	40	40	80	600
Dan Ferguson *Grading Inspector*		80	160	160	160	40	40	40	40	40	40	80	80	960
Thomas Schechter *Civil Inspector*						160	160	160	120	120	120	120	120	1080
Scott Vacula, PE *Geo/Mat Engineer*			10	10	10	4	4	4	4	4	4	4	20	78

Attachment B – Exhibit 1

infrastructure

Fee Estimate for City of Lemon Grove
Lemon Grove Avenue Realignment Project

Task Item	Labor Hours						
	Principal	Construction Manager	Civil Inspector	Inspector/ Inspector	Engineer/ Engineer	Lab Testing/ Reporting	
Hourly Rates [1]	$ 170.00	$ 145.00	$ 127.00	$ 100.00	$ 127.00	Estimate	
Task 1: Pre-Construction Services							
1.1 Bid Assistance	2	40					
1.2 Pre-Construction Conference		10					
1.3 Review Pre-Construction Submittals		30					
Task 2: Construction Services							
2.1 Document Control							
A. Project Document Control	6	48					
2.2 Construction Administration							
A. Construction Progress Meetings		48					
B. Project Coordination		52					
C. Shop Drawing and Submittal Review		60					
D. RFI Recommendations and Response		60					
E. Respond to Change Orders		52					
F. Progress Payment Review		24					
G. Labor Compliance		48					
2.3 Construction Inspection Services							
A. Grading Observation and Compaction Testing				860	20		
B. Civil Site Inspection			880				
C. Photo Documentation			160	80			
D. Community Relations		48	32	20			
2.4 Geotechnical/Materials Testing							
A. Laboratory Testing						$ 16,000.00	
B. Geo/Materials Engineering and Reporting					20		
Task 3: Post-Construction Services							
3.1 Project Closeout	2						
3.2 Final Project Documentation		40			20		
Total Hours	10	600	1080	960	70		
Total Project Costs	$ 1,700	$ 87,000	$ 137,160	$ 96,000	$ 8,966	$ 16,000.00	$ 349,266.00

Footnotes:
1. Field personnel rates are inclusive of vehicle, mileage, phone, computer, etc. Inspection rates shown are for prevailing wage projects.

Infrastructure Engineering Corporation

March 17th, 2016

City of Lemon Grove
Mike James, Public Works Director
3232 Main Street
Lemon Grove, CA 91945

Reference: Construction Management, Inspection, and Geotechnical Services for the Lemon Grove Avenue Realignment Project

Dear Mr. James:

Infrastructure Engineering Corporation (IEC) has reviewed the subject RFP, Addenda and is delighted to present the attached proposal to assist the City of Lemon Grove with Construction Management and Inspection of the Lemon Grove Avenue Realignment Project. We understand the at the City has been eager to implement these modifications for many years, and the staff at IEC is excited to assist the City with bringing it to fruition.

We believe we've proposed a unique approach to the management of the project. Taking into account the budgetary constraints, IEC has teamed with Southern California Soils and Testing (SCS&T) to provide a management and inspection team that can deliver the requested scope in the most efffecient manner. Mr. Scott Adamson, PE, QSP/QSD will provide Construction Managegment services while Mr. Dan Ferguson (SCS&T) will provided day to day inspection of mass grading activities under the supervision of Mr. Adamson. Following substantial completion of mass grading activities, Mr. Thomas Schechter (IEC) will provide day to day inspection services during underground utility installation and civil improvement construction.

With Mr. Adamson's history as the go to Construction Manager for the City of La Mesa for the last eight years and previous history with the City of Lemon Grove, as well as being a local resident, we believe IEC is perfectly suited to represent the City on this project. We are deeply invested in the City's community and economic success and as members of the local community will exhibit the same level of pride of ownership as City staff.

We are committed to working with the City to deliver the highest quality of infrastructure for your customers. Our goal is simply to exceed your expectations. Thank you for the opportunity to offer our services on this project.

Sincerely,

Scott Adamson, PE, QSD
Construction Manager

Robert Weber, PE
Principal-in-Charge

14271 Danielson Street, Poway, California 92064 T 858.413.2400 F 858.413.2440 www.iecorporation.com

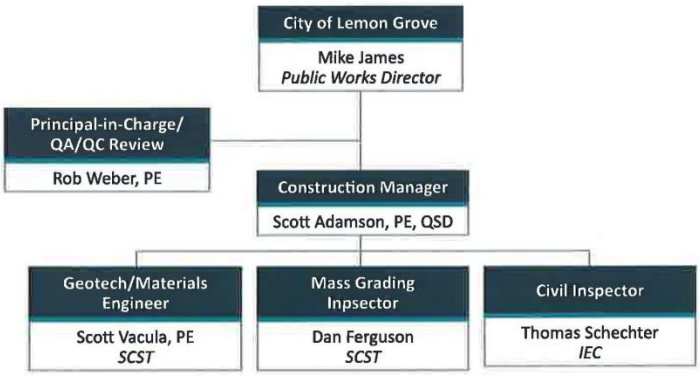
Attachment C

Table of Contents

Organizational Chart

Project Organization

IEC has reviewed the available documents, visited the project site, and has discussed the project with City Staff. Based on our understanding of the project we have assembled a highly qualified, experienced team for the City. Construction Management services will be provided by Mr. Scott Adamson, P.E. while the Inspection Services will be provided by Mr. Dan Ferguson and Mr. Thomas Schechter.



Project Team Commitments

The IEC team will make this project their priority and our team will be fully committed for the duration of the project. We understand that the availability and consistency of the team leadership are critical to the project success. The proposed team members will be available to fill these positions as requested. We will make no changes to the team's composition without express written consent and approval from the City. The following are summaries of the key staff and their roles and responsibilities on the project. Resumes for all of the team members are included in the Appendix.

Staff Biographies

Rob Weber, PE – Principal-in-Charge & QA/QC Review

Mr. Weber has 24 years of civil engineering and project management experience on a variety of municipal and public works water, wastewater, and recycled water projects. Specific project experience includes conveyance pipelines; reservoirs and tanks, water pump stations, and sewer lift stations. He has also successfully managed several as-needed services contracts for municipalities and water/wastewater utilities. Mr. Weber is thoroughly familiar with design standards, techniques and analytical methods, bid specifications, and cost estimating. His experience extends beyond civil engineering to include securing required project permits, fostering cooperative interagency approvals, and gaining community project acceptance. Mr. Weber will provide project oversite as described in the in the Quality Control/Quality Assurance section of the proposal.

Scott Adamson, PE, QSD/P – Project Manager/Construction Manager

Mr. Adamson has 18 years of experience in the construction quality control and management field. During his career he has worked both in both the public and private sectors. As a public works engineer he has filled many roles including geotechnical consultant, site inspector, resident engineer, and construction manager. Mr. Adamson has been retained for the past eight years by the City of La Mesa as an extension of staff construction manager on a multitude of projects, including the three "Streetscape" projects centered around the downtown district and City Hall. His projects have included public facilities, water and sewer pipeline replacement and rehabilitation, and multifaceted streetscape improvement projects.

Attachment C

Through his past experience he has become completely familiar with challenging municipal engineering issues such as; franchise utilities, NPDES requirements, public relations, right-of-way and private property issues, council concerns, and various types of outside grant and funding requirements including FHWA and SRF funding programs. He regularly attends update seminars on Caltrans Local Assistance Procedures and Water Pollution Control requirements, as well as attending various other professional seminars through professional organizations. This on-going training allows him to support his clients and his staff with the latest information regarding the administration of their construction projects and contracts. Mr. Adamson will be on site on a daily basis, responsible to oversee and coordinate the team of professionals we've assembled for this project, identify and mitigate issues, and act as the City's contract manager.

Daniel Ferguson – Mass Grading Inspector (SCS&T)

Mr. Ferguson will provide day to day inspection services during the grading portion of the project. Mr. Ferguson has over 20 years of experience in the geotechnical and materials quality control field. His experience includes heavy highway construction within the Caltrans right of way, as well as local municipal street improvement projects, and mass grading observation within the City of Lemon Grove boundaries.

Mr. Ferguson will work under the direct supervision of our project Construction Manager, Mr. Scott Adamson. He will be on site full-time during the grading portion of the project and act as member of IEC's construction management team as well as the project geotechnical technician.

Tom Schechter – Site Civil Inspector

Mr. Schechter has over 25 years in the field of engineering and construction oversite. His range of projects have included large street improvement projects, water and recycled water pipelines, pump stations, sewer facilities, reservoirs, and drainage projects. Over the last 5 years with IEC his role has been that of Resident Engineer on two multifaceted major street renovation projects in the business districts of the City of Solana Beach and the City of La Mesa.

Following the mass grading portion of the project, Mr. Schechter will join the project as the Site Civil Inspector. Mr. Schechter will then be on site full-time, while geotechnical and materials inspection will be scheduled as needed during trench backfill, subgrade preparation, and paving operations.

Scott Vacula, PE – Getotechnical and Materials Engineer

Mr. Vacula will act as the project geotechnical and materials engineer. Mr. Vacula is a Registered Civil Engineer with 16 years of diverse industry experience ranging from municipal, infrastructure, education, healthcare, commercial facilities, and residential construction. He's responsible for project management of construction quality control and assurance programs, performing geotechnical inspections at jobsites, and reviewing material laboratory test results.

While Mr. Vacula will not be on site on a regular basis, he will be available to provide guidance on matters of a geotechnical or materials compliance nature. He will also be responsible for coordinating and verifying that compliance testing is being performed in accordance with the governing specifications.

Qualifications of the Firm/Project Descriptions

Construction Management Experience

As a firm dedicated to local infrastructure engineering and construction, IEC has provided Construction Management services to local municipalities since opening our doors in 2002. We have a proven track record of providing responsive experienced staff for all levels of service including Construction Managers, Resident Engineers, and Field Inspectors. We are known for providing staff experienced and familiar with the particular aspects of municipal engineering such as familiarity with "greenbook" and the regional standards, sensitivity to public convenience and access, and inter-agency coordination.

Our reputation for providing quality services has been confirmed by our on-going relationships with agencies throughout San Diego County. Below we have provided a list of some of the clients we've provided Construction Management services for. We've also included a short description of three current clients and a summary of the services we have been providing for them.

- City of Carlsbad
- City of Coronado
- City of Del Mar
- City of La Mesa
- City of National City
- City of Oceanside
- City of Lemon Grove
- City of Vista
- City of San Diego
- City of Solana Beach
- Olivenhain Municipal Water District
- Padre Dam Municipal Water District
- Vallecitos Water District

Highway 101 West Side Improvement Project

AGENCY:	City of Solana Beach 635 S. Hwy 101 Solana Beach, CA 92075	CLIENT CONTACT: PHONE: E-MAIL:	Dan Goldberg 858.720.2474 dgoldberg@cosb.org
PROJECT DATES:	June 2012 – November 2013	TOTAL PROJECT VALUE:	$6 million

PROPOSED PERSONNEL/ ROLE ON PROJECT

Scott Adamson, PE, QSD
Construction Manager

Tom Schechter
Construction Inspector

OUTSIDE AGENCIES

SDG&E
Santa Fe Irrigation District

IEC was selected to provide Construction Management and Inspection services on this 6.0 million dollar streetscape project for City of Solana Beach. As part of this project IEC's Construction Manager and Inspection staff oversaw the installation of approximately 1,800 Linear Feet of new 10-inch PVC water main for the Santa Fe Irrigation District. This main was installed in a new alignment in order to replace the aging main along Hwy. 101 before the new paving was complete and move it out from under the new decorative concrete being installed as part of the project. The water main installation included the installation of 17 new water service laterals and 4 fire hydrant assemblies. These operations required close coordination with the District, affected businesses, and the contractor in order to minimize disruption to service during business hours.

This project also consisted of the removal of all existing hardscape along the west side of Highway 101 in the City's business district and replacement with new decorative concrete sidewalk, installation of approximately 3,500 Linear Feet of new 18-inch RCP stormdrain pipe, medians, and landscaping as well as installation of four new signalized intersection with video controlled signal systems. Following the installation of the underground utilities and hardscape improvements the south bound lanes of Hwy 101 through Solana Beach were overlaid with a 2-inch Rubberized Asphalt overlay and then restriped.

Attachment C

FHWA Funded, Smartgrowth Phase 3, Allison Avenue Improvement Projects

AGENCY:	City of La Mesa 8130 Allison Avenue La Mesa, CA 91942	CLIENT CONTACT: PHONE: E-MAIL:	Greg Humora, PE 619.667.1146 ghumora@ci.la-mesa.ca.us
PROJECT DATES:	June 2010 – January 2012	TOTAL PROJECT VALUE:	$1.3 million

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager

OUTSIDE AGENCIES
SDG&E
Helix Water District
MTS
Caltrans

IEC provided construction management and inspection services for federally funded street improvement project. This was the final phase of a three phase Smartgrowth project, the primary focus of which was to provide new safer pedestrian pathways around City Hall and the two adjacent mass transit transfer station serving both the MTS Trolley and bus systems. This project included extensive street, sidewalk, and median reconstruction along Allison Avenue from University Avenue to Palm Avenue in the City of La Mesa. This project included asphalt resurfacing, decorative flatwork, signal modifications, landscaping, ADA compliance, and striping. Our construction manager provided coordination with Caltrans and FHWA throughout the projects to provide all necessary documentation to meet the requirements of the Local Assistants program as well coordinating two successful audits by FHWA. Our manager and inspector also acted as the City's representative on the project, maintaining constant communication with business owners along the alignment and fielding and resolving complaints.

2011 Collector Street Rehabilitation/Utility Undergrounding

AGENCY:	City of La Mesa 8130 Allison Avenue La Mesa, CA 91942	CLIENT CONTACT: PHONE: E-MAIL:	Greg Humora, PE 619.667.1146 ghumora@ci.la-mesa.ca.us
PROJECT DATES:	June 2011 – June 2012	TOTAL PROJECT VALUE:	$5.7 million

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager

Tom Schechter
Resident Engineer/Inspector

OUTSIDE AGENCIES
AT&T
Cox Communications
SDG&E
Helix Water District

IEC was selected by the City of La Mesa to provide Resident Engineering and Inspection services on this multi-faceted project. This project combined three separate design projects into one construction contract. These projects included a 1.1 million dollar utility undergrounding project along the Normal Avenue corridor, .5 million dollar sewer main replacement project in the City's industrial district, and a 4.1 million dollar street resurfacing project. IEC provided a CM/Resident Engineer and a full time inspector during the execution of this contract. This project required close coordination between the IEC's project team and the Contractor's management team. At times all three phases of this project were being constructed simultaneously. While insuring that construction quality standards were adhered to, IEC's personnel also interacted daily with residents regarding access issues and construction on private property, as well as minimizing public inconvenience.

Smart Growth Phase 2 – University Avenue Improvements

AGENCY:	City of La Mesa 8130 Allison Avenue La Mesa, CA 91942	CLIENT CONTACT: PHONE: E-MAIL:	Greg Humora, PE 619.667.1146 ghumora@ci.la-mesa.ca.us
PROJECT DATES:	March 2009 - August 2009	TOTAL PROJECT VALUE:	$1.0M

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager

OUTSIDE AGENCIES
SDG&E
Helix Water District
MTS
Caltrans

IEC provided construction management and inspection services for City of La Mesa's Smart Growth Phase 2, University Ave. Improvements. This federally funded project included the installation of new decorative sidewalk, median landscaping, and improved pedestrian access items such as new signaling, brick paver crosswalks, and reduced crossing lengths at intersections. The project was located around the University Ave. and Baltimore Dr. location intersection. Construction activities included upgrade of storm drain improvements throughout the project limits, new sidewalk and pedestrian ramps, realign and architecturally upgraded median curbs/islands, upgraded traffic signals, traffic signal cabinets and /or traffic signal modification with conduit, wire, traffic signal poles, signal heads and hardware. Upgraded street lights with conduit, wire and poles. New AC pavement overlay.

This project was FHWA funded and administered by the Caltrans Local Assistance program. Our construction manager was responsible for maintaining all required documentation and records in compliance with Local Assistance procedures as well as submitting monthly reimbursement requests to Caltrans on behalf of the City. Following the completion of the project, this project was subject to two FHWA audits. Both audits were completed without any loss of funding to the client.

SRS-Funded Sewer Replacement/Rehabilitation Project

AGENCY/ PROJECT LOCATION:	City of La Mesa 8130 Allison Avenue La Mesa, CA 91942	CLIENT CONTACT: PHONE: E-MAIL:	Greg Humora, PE 619.667.1146 ghumora@ci.la-mesa.ca.us
PROJECT DATES:	June 2006 – June 2011	TOTAL PROJECT VALUE:	$5 million

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager/ Inspector

OUTSIDE AGENCIES
SDG&E
Helix Water District
State Water Resources

IEC provided contract administration, inspection services, and quality control for this project. This project was implemented in order to replace or rehabilitate old 6-inch concrete sewer mains with new 8-inch PVC mains throughout the City of La Mesa. Significant construction activities managed as part of this project included traditional open trench replacement, 30-inch jack and bore installation under railroad tracks, and "pipebursting" techniques; most of which was installed in narrow easements along property lines. This required close coordination between the prime contractor, the subcontractor, and the construction management team in order to minimize the impact on private property owners. Notification to affected property owners well in advance of construction was critical. Face-to-face meetings arranged around the property owners schedule and attended by both the IEC manager and the S.C. Valley project manager were common and extremely helpful. The IEC construction manager was responsible for all coordination with affected utilities including, AT&T,

Attachment C

SDG&E and Helix Water District, as well as provided the necessary reporting and coordination with the Water Resources Control Board, State Revolving Fund program.

PHASE I KEY FEATURES
- 18,000 lf 6-inch sewer replaced or rehabilitated
- 2,000 lf Cured-in-Place Polyester Lining
- 500 lf HDPE "pipebursting"
- **200 lf 30-inch Jack & Bore**

PHASE II KEY FEATURES
- 10,000 lf 6-inch sewer replaced or rehabilitated
- 1,500 lf HDPE "pipebursting"

PHASE III KEY FEATURES
- 11,000 lf 6-inch sewer replaced or rehabilitated
- 3,000 lf HDPE "pipebursting"

PHASE IV KEY FEATURES
- 12,000 lf 6-inch sewer replaced with 8-inch
- 2,800 lf 8-inch HDPE "pipebursting"
- 68 manhole replacements
- Epoxy coated manhole rehabilitation

Sewer Capital Improvements Project - Cured in Place Pipe Lining

AGENCY:	City of Lemon Grove 3232 Main Street Lemon Grove, CA 91945	CLIENT CONTACT: PHONE: E-MAIL:	Tim Gabrielson, PE 619.825.3800 tgabrielson@lemongrove.ca.gov
PROJECT DATES:	May 2015 – November 2015	TOTAL PROJECT VALUE:	$190,000

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager

IEC was selected as part of Dokken Engineering's as-needed contract with the City of Lemon Grove to provide construction management and inspection services on this cured-in-place pipe lining project. This project included the installation of approximately 6,700 linear feet of polyester pipe lining as well as multiple point repairs and new clean-out installations.

The majority of the sewer mains lined as part of this project were located in existing easements which ran along rear property boundaries. This required extensive coordination by IEC personnel with the affected property owners. Every effort was made to maintain constant contact with residents in regard to work progress, upcoming schedules, and obtaining final approval of demobilization from private property.

Camino Del Sur Recycled Water Conversion Project

AGENCY:	City of San Diego 9485 Aero Drive San Diego, CA 92101 *(Sub to Harris & Associates)*	CLIENT CONTACT: PHONE: E-MAIL:	Bill Swallow 619.980.8091 wswallow@sandiego.gov
PROJECT DATES:	June 2013 – June 2014	TOTAL PROJECT VALUE:	$1.1 Million

PROPOSED PERSONNEL/ ROLE ON PROJECT
Scott Adamson, PE, QSD
Construction Manager

OUTSIDE AGENCIES
SDG&E
Caltrans

IEC provided Resident Engineering and Inspection services to the City of San Diego on this approximately 1.1 million dollar water main installation project. This water main included approximately 1,400 Linear Feet of 16-inch PVC water main installed

along the major arterial of Camino Del Sur off of Hwy. 56 in San Diego. As part of this installation it was necessary to install approximately 1,100 linear feet of 26-inch welded joint HDPE pipe as an encasement through the Caltrans right-of-way extending under Hwy. 56. The HDPE pipe was installed in two pieces with an electro fusion coupler in the middle. The new water main was then fitted with casing spacers and restrained joint apparatus, and pushed into the casing one joint at a time. This required careful observation by our inspector to verify that the pushing pressure was constantly monitored and the pipe was not over-inserted.

In addition to the new 16-inch water main this project included installation of a final approximately 100 Linear Foot reach of 24-inch CML & TW steel water main needed to complete the connection between a previously installed, but not in use, recycled water main along Hwy 56 and the new completed recycled water system. This installation was completed in the Caltrans right-of-way along Hwy. 56 and also in an environmentally sensitive area in an adjacent canyon. These challenging locations required our Resident Engineer/Inspector to work closely with Caltrans inspection personnel as well as third party environmental monitoring.

PROPOSED PERSONNEL/ ROLE ON PROJECT
Dan Ferguson
Observation/Testing

Interstate 805 Widening

AGENCY:	Hazard Construction for Caltrans 6465 Marindustry Drive San Diego, CA 92121	CLIENT CONTACT: PHONE: E-MAIL:	Lantz Gibson 858.864.6156 lgibson@hazardconstruction.com
PROJECT DATES:	September 2014 – December 2015	TOTAL PROJECT VALUE:	$6.8M

Southern California Soils & Testing's Dan Ferguson, provided observation and testing of asphalt concrete during this $8.6 million project. Work consists of widening of the freeway with JPCP, construction of a barrier, and modification of electrical systems from the Prospect Avenue overcrossing to the Plaza Boulevard undercrossing.

Attachment C

Quality Assurance Plan

IEC takes a proactive approach to Quality Assurance and Quality Control. We focus on two concepts: (1) No project is too small for quality; and (2) everyone is responsible for quality. It is our goal to deliver a well constructed project that will meet the City's expectations of quality and functionality.

Quality control starts with our inspectors in the field doing their job diligently, and being properly equipped to perform their duties. It is our construction manager's responsibility to make sure that our inspectors have the complete and proper submittals, test equipment, conformed plans and specs, and standards they may need to properly oversee the project. With the right tools our inspectors are on site daily to observe construction operations and materials and compare them with the project plans and specifications.

Quality control continues with our construction manager through regular reviews of the inspector's dailies. Dailies are reviewed for completeness and detail. Our inspectors are expected to record items such as quantity of materials used or installed, any production testing that may have been performed, type of equipment and how it was used on the job, visitors to the jobsite, and any irregularities they may have noted that day. It is also our construction manager's responsibility to review any material testing or special inspection that may have been done by a subconsultant and make sure that any failing tests are dealt with immediately.

As a tool to help facilitate quality control, IEC is proposing to manage this project utilizing a web-based project management program called Virtual-Project Manager (VPM). This program helps to ensure prompt completion and filing of inspector's dailies and photos, was well as tracking the submittal and response dates of any contractor claims or RFIs. The program also allows for the review of these items by City staff in real time without the need to wait for physical delivery. The benefits of this program will be discussed in further detail in our proposed approach.

Quality Assurance is provided by members of our senior staff. The Senior Engineer in charge of overseeing the project performs regular reviews of the project progress. They stay in constant communication with the construction manager throughout the project, making sure that both IEC's project budget and the construction budget are under control. In addition the Senior Engineer in charge is responsible to periodically perform a process review of the project checking to make sure the project files are complete and orderly and necessary back-up documentation is being retained.

Typically this task would fall under the responsibilities of Mr. Scott Adamson as the firm's Senior Construction Manager, however with his role as the project CM, the Quality Assurance role will be assigned to Mr. Rob Weber, the principal engineer in charge. As explained above, Mr. Weber will periodically review the project management program to verify that project documentation is being filed in a timely and complete manner and meet with Mr. Adamson to review budgets. Mr. Weber will also periodically check with the City's project manager to request any feedback regarding the performance of our project personnel.

Change Order History

IEC has prepared the table below as a summary of change order amounts on recent projects. In developing the table we have included projects that are of similar size and/or scope as the Lemon Grove Avenue Realignment Project, and have included our proposed construction manager, Mr. Scott Adamson as the CM.

Project Name	Original Contract	Amount of CCO's	Number of CCO's	Percent Total Change	Owner Requested
City of Solana Beach, HWY 101 W. Side Improvements	$ 5,948,984	$ 474,570	8	7.40%	3.00%
City of La Mesa, Phase 2 Smartgrowth, University Ave.	$ 993,328	$ 68,265	4	6.90%	1.00%
City of La Mesa, Phase 3 Smartgrowth, Allison Ave.	$ 1,318,000	$ 170,410	10	13.00%	9.70%
City of San Diego, Camino Del Sur Recycled Water	$ 1,094,530	$ 69,711	2	6.00%	2.90%

Our experience with similar projects has taught us that there are two main causes of change orders on a project such as this one. One is owner initiated design changes, and the other is unforeseen abandoned utilities.

Many times the design of a street realignment or major improvement project takes place over the span of a number of years. During that time span the goals of the City Council, the preferred equipment or construction standards, and City personnel may change. Typically the result of some of these changes are not identified during the final design preparation, and only come to light once construction is underway. This results in owner initiated design changes needing to be made in order to meet current standards or goals. It's IEC's philosophy to be constantly trying to identify where these situations may arise.

When working in older neighborhoods, such as the one surrounding Olive Street in Lemon Grove, it's common to come across abandoned utilities that cannot be identified by or attributed to a current franchise utility. These unforeseen buried objects can result in significant delay charges if they cannot be identified quickly as being safe to remove. In addition, depending on the quantity of the item being removed, disposal costs can add up quickly. IEC has found that taking the proactive step of procuring copies of as many record drawings of the subject area as we can as well as any utility maps can greatly reduce the identification process.

Attachment C

Workforce Commitment

Project Team Commitments

The IEC/SCS&T team will make this project their priority and our team will be fully committed for the duration of the project. We understand that the availability and consistency of the team leadership are critical to the project success. The proposed team members will be available to fill these positions as requested. We will make no changes to the team's composition without express written consent and approval from the City.

We have included the table below to illustrate the backlog and previously committed workload for each team member during the proposed construction schedule:

0% Committed — 100% Committed to your Project

Role/Team Member	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May
Scott Adamson, PE, QSD													
Lemon Grove Alignment	25%	50%	25%	25%	25%	25%	25%	25%	25%	25%	25%		
La Mesa, Alvarado Sewer	25%	25%	25%	25%	25%	25%	25%						
La Mesa, University Medians	25%	25%	25%	25%	25%	25%	25%	25%	25%				
Dan Ferguson													
Lemon Grove Alignment		50%	100%	100%	100%	25%	25%	25%	25%	25%	25%		
Thomas Schechter													
Lemon Grove Realignment						100%	100%	100%	75%	75%	75%	75%	75%
Lemon Grove, Sewer Upsizing			75%	75%	75%								

We have also included the proposed Resource Schedule below outlining the major phases of the project and the hours we anticipate each team member will be dedicating to those phases:

Estimated Schedule	May 2016	June 2016	July 2016	Aug 2016	Sept 2016	Oct 2016	Nov 2016	Dec 2016	Jan 2017	Feb 2017	March 2017	Apr 2017	May 2017	Total Hrs
Bid Assistance														
Clear & Grub														
Grading														
Underground														
Surface Improvement														
Rob Weber *Principal-in-Charge*	2			2			2			2			2	10
Scott Adamson *Construction Mgr*	40	80	40	40	40	40	40	40	40	40	40	40	80	600
Dan Ferguson *Grading Inspector*		80	160	160	160	40	40	40	40	40	40	80	80	960
Thomas Schechter *Civil Inspector*						160	160	160	120	120	120	120	120	1080
Scott Vacula, PE *Geo/Mat Engineer*			10	10	10	4	4	4	4	4	4	4	20	78

Scott Adamson, PE, QSD

Construction Manager

Professional Registration
Registered Professional Engineer
California No. C65467

Certification
Qualified SWPPP Developer (QSD) & Qualified SWPPP Practitioner (QSP)
Certification #23001

NASSCO ITCP for CIPP
CIPP-110-0321
Confined Space

Education
San Diego State University, B.S.
Civil Engineering, 1997

Affiliations
Construction Management Association of America (CMAA)

Qualifications

Mr. Adamson, PE has 18 years of construction management, resident engineering, inspection and design services of small and large civil engineering public works projects with an emphasis in pipeline and roadway and drainage construction. After becoming a Professional Engineer, Mr. Adamson worked as an extension of staff for such agencies as the City of Del Mar and Dana Point. Responsibilities included providing roadway design, construction management and resident engineering services for numerous local new roadway and asphalt pavement rehabilitation projects. Prior to his degree in Civil Engineering obtained at San Diego State, Mr. Adamson spent 4-years as a materials testing technician for a local geotechnical firm. Responsibilities included field and laboratory materials testing on mass grading, underground utility backfill, asphalt paving and concrete structure inspection and materials testing.

Project Experience

Highway 101 West Side Improvements, *City of Solana Beach* – Construction Manager for streetscape rehabilitation and beautification project that involved the complete removal and replacement of existing medians, roadway, and sidewalks along the western half of Highway 101. The medians and striping were shifted to allow for a wider sidewalk and irrigation and landscaping were installed. Decorative concrete paving was installed in the sidewalk areas with ten new "architectural" locations consisting of tile mosaics, glass seeded flatwork and stylized pedestrian benches. In addition to the median and flatwork construction, the project also included the installation of approximately 3,500 linear feet of new storm drain, 1,800 linear feet of new water main, and the installation of new signals and camera systems at four intersections.

Sewer Improvements Inflow/Infiltration, *City of La Mesa* – Construction Manager/ Inspector for this $4.6 million dollar sewer main replacement and rehabilitation program which took place at various locations throughout the City. This was a four phase project, replacing or rehabilitating approximately 43,000 LF of concrete sewer main. Replacement operations included traditional cut and cover, CIPP lining, Pipebursting, and Jack and Bore. These locations included sewer mains located in the street as well as challenging easements along canyons and on hillsides. Mr. Adamson provided construction management services as well as inspection during all four phases. In addition to typical construction management services he was also called on to provide creative solutions, based on field experience, for difficult replacements below structures and in limited access locations.

Johnson Drive Stormdrain Replacement, *City of La Mesa* – Construction Manager for this $.75 million dollar CMP replacement project. This project included the replacement of approximately 1,000 linear feet of double barrel 24-inch CMP stormdrain with a concrete box culvert. The project also included the replacement of approximately 1,000 linear feet of 8 and 12 inch diameter sewer main and CIPP lining of approximately 500 linear feet of 12-inch sewer main. This was an extremely challenging project as it involved many utility relocations and unforeseen conflicts. The project management included extensive coordination with the conflicting utilities project managers and construction staff. Mr. Adamson provided

Attachment C

Construction Management services as well as overseeing and acting as lead for the project field inspectors.

Normal Avenue Sewer Group Improvements, *City of La Mesa* – Construction Manager for this $1.1 million dollar sewer main replacement project in the City of La Mesa. This project included approximately 6,000 linear feet of sewer main replacement as well as approximately 1,000 linear feet of 10-inch CIPP lining and various point repairs. Mr. Adamson provide construction management services and acted as lead for the project inspector.

Alvarado Trunk Sewer Replacement, Phase 1, *City of La Mesa* – Resident Engineer/ Inspector for the replacement of approximately 2,000 linear feet of 18-inch trunk main along Fletcher Parkway in the City of La Mesa. This main was being modified and replaced in order to allow the construction of a large apartment facility over the alignment of the main. The existing clay main was removed and replaced with 18-inch PVC, which included an approximately 200 linear foot reach that was sleeved with a 24-inch HDPE sleeve and concrete encased.

Smartgrowth Phase 2&3, University and Allison Ave Improvements, *City of La Mesa* – Construction Manager/Inspector for these two street improvement projects. These two projects were extensive street, sidewalk, and median reconstructions on large sections of both University Avenue and Allison Avenue in the City of La Mesa. Both of these projects incorporated asphalt resurfacing, decorative flatwork, signal modifications, landscaping, ADA compliance, and striping. Mr. Adamson provided typical construction management services from pre-con to close out as well as assisting in inspections throughout the projects. He also provided program coordination with Caltrans and FHWA in regards to project funding, as well as a successful audit by FHWA of the project files and management procedures.

Annual Street Improvement Projects, *City of Del Mar & City of Dana Point* – Provided Resident Engineering and Construction Management services for two consecutive annual street improvement projects for both the City of Del Mar and City of Dana Point. These projects generally consisted of dig-out and repair of localized damage throughout the City with two or three larger overlay locations. His responsibilities for these capital improvement projects included field inspection to identify repair locations throughout the City, estimating, and prioritizing potential areas of repair and improvement; managing a design team to produce plans and specifications; managing project bidding and the award; and providing field engineering and construction management through the project's warranty period.

Federal Boulevard Subgrade Stabilization and Overlay Project – Provided Resident Engineering services during construction of this extensive overlay project. The project addressed a badly damaged stretch of Federal Boulevard in Lemon Grove, California. The subgrade in this area was supported on deteriorating and settling concrete panels which were located approximately eight inches below finish surface. In order to stabilize the concrete panels, the roadway was ground to within four inches of the concrete surface, the panel joints were exposed and sealed with epoxy, and then high pressure grouting techniques were employed to provide support under

the concrete panels in hopes of preventing further settlement. A four inch overlay was then installed to establish a smooth profile and improve area drainage. Also included in this project was the elimination of a large drainage swale and with the installation of a 72-inch concrete storm drain, construction of three accompanying drainage catch basins, installation of approximately three blocks of new sidewalk, and construction of a Keystone retaining wall.

Coast Boulevard Rehabilitation and Streetscape Improvement Project, *City of Del Mar* – Provided Resident Engineering services to the City of Del Mar on this overlay and streetscape improvement project. The project included a badly worn length of Coast Boulevard between 17th and 21st Streets in Del Mar, California. This area of Coast Boulevard is underlain by sandy subgrade along the Pacific Coast, causing extensive pavement failure with only minor repairs having been performed over the previous twenty years. Rehabilitation techniques employed during the project included crack filling, dig out and repair of localized alligator cracking, profile grinding, and a two inch overlay of rubberized asphalt. Also included as part of the project were various streetscape improvements. These included removal and replacement of non compliant ADA curb ramps, replacement of badly damaged curb and gutter, installation of two large drainage catch basins, and installation of two landscaped medians.

Camino Del Mar 4th to 9th Street Connectivity Project, *City of Del Mar* – Provided project engineering services during the design phase of this project. The primary objective of the project was to provide new pedestrian access along Camino Del Mar from 4th Street to 9th Street. Challenging aspects of the design included a meandering sidewalk at varying grades, two large retaining walls, re-configuration of four driveway entrances to accommodate flow, ensuring ADA compliance, relocating conflicting utilities, and incorporating architectural materials. In addition to design services, Mr. Adamson's responsibilities have also included project scoping, construction estimating, and sub-consultant coordination and management duties.

Mr. Adamson also developed and aided in implementation of NPDES Jurisdictional Urban Runoff Management Programs for the City of Del Mar and the City of San Marcos.

Q-1 Pipeline Rehabilitation Project, *City of San Diego* – Mr. Adamson provided Resident Engineering and Inspection services on this sewer rehabilitation project for the City of San Diego. This projects involved the lining of approximately 48,000 linear feet of 8-inch sewer main through trenchless construction techniques. Rehab methods included both CIPP lining as well as "Expanda" or "Rib-Lock" lining. Additional construction items included rehabilitation of all laterals in the public right-of-way by CIPP lining, installation of new lateral cleanouts, and the replacement and rehabilitation of badly deteriorated manholes. Manhole rehabilitation was achieved through the installation of a spray on "Zebron" epoxy lining system.

Attachment C

Robert S. Weber, PE
Principal-in-Charge

Professional Registration
Registered Professional Engineer
California No. C59312
New York No. 073187
Idaho No. 12930

Education
State University of New York at Buffalo
B.S. Civil Engineering, 1990

Professional Affiliations
American Society of Civil Engineers

American Water Works Association

California Rural Water Association

Consulting Engineers and Land Surveyors of California

Awards
Gano Reservoir and Unit X Pipelines – CELSOC

4S Ranch Water Reclamation Facility, Plant 'A' and 'B' Modifications – APWA

Qualifications
Mr. Weber has 24 years of civil engineering and project management experience on a variety of municipal and public works water, wastewater, and recycled water projects. Specific project experience includes conveyance pipelines; reservoirs and tanks, water pump stations, and sewer lift stations. He has also successfully managed several as-needed services contracts for municipalities and water/wastewater utilities. Mr. Weber is thoroughly familiar with design standards, techniques and analytical methods, bid specifications, and cost estimating. His experience extends beyond civil engineering to include securing required project permits, fostering cooperative interagency approvals, and gaining community project acceptance.

Mr. Weber's project success based on his ability to understand the client's needs and objectives and translate them into actions during execution of the project. He prides himself in involving the client in the project, and ensuring the technical staff understands the critical issues of the project. His engineering decisions and designs are based on careful considerations of project needs and specific site characteristics. His dedication to quality effectively manages project risks and controls construction and operational costs.

Project Experience – Pipelines
Designing and sizing pipelines is a relatively simple task for an experienced professional engineer. Constructing the pipeline under emergency conditions, through sensitive coastal beaches and creeks, in highly developed residential areas, across open rural property, within existing pavement traveled by daily commuters, and requiring multiple agency approvals can be extremely difficult. Mr. Weber has applied his engineering and project management talents in all of these settings to construct water transmission and distribution lines, forcemains, and gravity sewers. Mr. Weber has an ability to anticipate problems, is poised with solutions, and understands that responsiveness is critical to every construction project. He has developed plans to provide continuous uninterrupted service and peak hour uncongested traffic flow during construction.

PIPELINES		
La Posta Recycled Water Pipeline Extension - Phase 1	5,900 ft of 4"-8" PVC 160 lf 8" DIP	City of Solana Beach
Non Destructive Testing of Three Sewer Force Mains	14-inch DIP, 4-inch DIP, 6-inch ACP	City of Encinitas
Johnston Road Transmission Main	2,800 lf 24-inch PVC/DIP	Rincon del Diablo Municipal Water District
Avenida del Diablo Pipeline	1,000 lf 12-inch DIP, 2,400 lf 8-inch DIP	Rincon del Diablo Municipal Water District
B2/B3 Forcemain	2,600 lf 24-inch PVC, 1,400 lf 14-inch PVC	Leucadia Wastewater District
Balszburg Neighborhood Sewer & Water Pipelines	15,000 lf 8-inch PVC	City of Blythe
Myers Street Sewer Replacement	2,000 lf 21-inch/24-inch PVC	City of Oceanside

IEC

PIPELINES		
Lift Station No. 1 Force Main Alignment Study	12,000 lf PVC	City of Escondido
Carmel Valley Reclaimed Water Pipeline	10,000 lf 28-inch & 12-inch PVC	City of San Diego
Unit X Pipelines	10,000 lf 24-inch steel	Olivenhain Municipal Water District
Tait Street Waterline Replacement	2,000 lf 8" PVC	City of Oceanside
711 Pipelines	1,500 lf 30-inch steel	Otay Water District
680 Pipelines	1,000 lf 24-inch steel	Otay Water District
Sewer and Water Group Job 530	3,700 lf 8-inch PVC 5,200 12-inch PVC	City of San Diego
Sewer and Water Group Job 530A	5,00 lf 8-inch PVC 3,000 lf 16-inch PVC	City of San Diego
San Elijo Sewer Crossing	24-inch steel/12-inch PVC	City of Solana Beach
Bandstand Sewer Trunk Main	3,000 lf 12-inch PVC	City of Oceanside
Gordon Hill Road Pipeline Replacement	4,500 lf 12-inch PVC	Valley Center Water District
Fortuna Ranch Pipeline	4,400 lf 8-inch/12-inch/16-inch PVC 800 lf 8-inch PVC	Olivenhain Municipal Water District
Force Main Replacement	9,000 lf 6-inch/10-inch PVC	Leucadia Wastewater District
101 Trunk Sewer Bypass	650 lf 12-inch PVC	Leucadia Wastewater District
Oak Knoll Trunk Sewer Replacement	5,500 lf 27-inch PVC	City of Poway
Batiquitos Inlet Sewer	900 lf 21-inch/24-inch PVC	Leucadia Wastewater District
Gibraltar Sewer Replacement	500 lf 12-inch PVC	Leucadia Wastewater District
Perris Valley North Pipeline Jumpers	5,000 lf steel	Eastern Municipal Water District
Mission San Luis Rey Waterline	3,000 lf 10-inch PVC	City of Oceanside
Downtown Sewer Upsizing	12,000 lf PVC	City of National City
Recycled Water System, Phase 1	2 miles 14-inch PVC	Lake Arrowhead Community Services District
Osborne Street Aqueduct Relocations	1,500 lf 24-inch steel	City of Oceanside
Sleepy Hollow Water System	5,000 lf 8-inch/12-inch PVC	City of Chino Hills
Lift Station 1 and Eagle Crest Lift Station Sewer Force Main Alternative Analysis	2 miles 16-inch ductile iron	City of Escondido
Well No.'s 9, 10, 11 Raw Water Collection Pipeline	5,600 lf 16"/20" PVC	City of Oceanside
I-215 Water Main Relocations - Segments 1 & 2	Water main relocations	City of San Bernardino Water Department
I-215 Water Main Relocations - Segment 3	Water main relocations	City of San Bernardino Water Department

Attachment C

Project Experience—Pump Stations

Specializing in pump and lift station design, Mr. Weber's experience is extensive. Having designed stations with pumping rates up to 8,300 gpm, he can apply his expertise to meet nearly any situation. His design experience includes associated chemical odor control scrubbers, mechanical and electrical equipment, telemetry, emergency tank overflow and power backup, and surge protection. Working in prestigious coastal neighborhoods and along public beaches, Mr. Weber has designed subterranean stations, while in others incorporated public restrooms, access pathways, architectural treatments, and public art. Recognizing that poor operation and maintenance in many ways results from poor design, Mr. Weber values the opinion and ideas of the client's operations staff in his designs. Mr. Weber often has involved a construction contractor to solve particular design challenges, and has incorporated the extensive and rigorous reviews from the coastal commission and various city departments and commissions.

PUMP STATIONS		
Tenaja Pump Station	6,300 gpm	Rancho California Water District
Batiquitos Pump Station Rehabilitation	40 MGD	Leucadia Wastewater District
North Bay Pump Station Preliminary Design	3,500 gpm	Lake Arrowhead Community Services District
Graham Pump Station	10,000 gpm/variable frequency drives	City of Mountain View
Bandstand Lift Station	500 gpm in beach front park	City of Oceanside
Lake San Marcos Lift Station Electrical Upgrades	Variable frequency drive	Vallecitos Water District
Pump Station 18	650 gpm on beach	City of San Diego
Pump Station 19	265 gpm 2 story subterranean	City of San Diego
944 Pump Station	7,000 gpm/variable frequency drives	Otay Water District
South Lake Pump Station	2,000 gpm	Vallecitos Water District
Wulff Pump Station	1,500 gpm/demolish existing station	Vallecitos Water District
Deer Springs Pump Station	2,600 gpm	Vallecitos Water District
Sewer Pump Station 50	Low flow diversion system	City of San Diego
Via Ambiente Sewer Pump Station	553 gpm	Olivenhain Municipal Water District
Diamond Valley No. 1 Booster Station Demolition	Demolish existing station	Eastern Municipal Water District

Project Experience — As-Needed Services

The broad and diverse experience offered by Mr. Weber has been called upon in "as-needed" situations for municipal engineering. Managing many task assignments concurrently and providing highly responsive service, Mr. Weber has designed pipeline replacements, sewer lateral relocations, culvert and storm drainage improvements, service access roads, pipeline bridge crossings, tank foundations,

erosion control systems, and conducted planning studies for literally hundreds of residential homes. Mr. Weber is recognized among his peers for his earthwork and grading expertise. Through his experience he has proven to act as an extension of municipal staff.

AS-NEEDED SERVICES		
As-Needed Engineering Services	Water and wastewater studies and designs	City of San Diego Engineering and Capital Projects Department
As-Needed Engineering Services	Wastewater projects - various	City of San Diego Metropolitan Wastewater Department
As-Needed Engineering Services	Weese Filtration Plant upgrades	City of Oceanside
As-Needed Engineering Services	Wastewater projects - various	Leucadia Wastewater District

Project Experience – Other Relevant Experience

Important to servicing water is the flow control, groundwater, and chloramination designs conducted by Mr. Weber. In these designs he has provide critical links in providing needed quantities of safe drinking water to users. By designing a 48 and 36-inch steel piping, electrically actuated plug valve, venturi meter, and other associated telemetry, Mr. Weber linked 60 cfs of water to a joint San Diego County Water Authority/Vallecitos Water District Flow Control Facility. Mr. Weber also developed and evaluated alternatives for recovering and storing 90,000 acre-feet of groundwater in the Lower San Luis Rey River Valley. He was the Project Manager for the preliminary and final design for the City of Oceanside's Wells 9, 10 & 11 Project, which will form a critical part of the City's water infrastructure. Design of Well 9 (existing) was fast-tracked in order to supply additional water to the City's existing brackish water treatment plant. In response to an application prepared jointly by the City of Oceanside, the San Diego County Water Authority, and Mr. Weber, this project was selected for a $7.2 million dollar construction grant from the Metropolitan Water District of Southern California. His experience also includes removal and recoating of chlorine tanks, and conversion of gas chlorine systems to liquid based chloramination systems. In addition to the design performed by Mr. Weber on the following projects, he has prepared bid packages and conducted on-site construction observation.

OTHER RELEVANT EXPERIENCE		
Camp de Benneville Pines	Water System Upgrade	Camp de Benneville Pines
Groundwater Pilot Production Wells	Task order based services including: investigation workshop, design upgrades to production well, design of 500 gpm well head facility	City of San Diego
Olivenhain 6 & 7 Flow Control Facility	New flow control facility	Olivenhain Municipal Water District
Olivenhain 4 Flow Control Facility	Replacement Facility	Olivenhain Municipal Water District
Olivenhain 14 Flow Control Facility	Upgraded Facility	Olivenhain Municipal Water District
Modifications to 4S Ranch Water Reclamation Facility	Miscellaneous modifications & upgrades for 2 mgd treatment facility	Olivenhain Municipal Water District

Attachment C

OTHER RELEVANT EXPERIENCE		
Hale Avenue Resource Recovery Facility	Platforms and ladders for existing DAFT units and digester	City of Escondido
Golf Course Recycled Water Retrofits	Recycled water retrofit permitting for four existing golf courses being converted to recycled water	Olivenhain Municipal Water District
Vallecitos 10 Flow Control Facility	60 cfs; 36-inch & 48-inch steel; telemetry	San Diego County Water Authority
Wells 9, 10, 11	3 extraction wells, wellhead facilities, 4,000 lf of pipeline	City of Oceanside
Lower San Luis Rey River Valley Groundwater Study	Storage and recover feasibility study	San Diego County Water Authority
Regulatory Site Chloramination Conversion	Conversion from chlorine gas to liquid chloramination system	Otay Water District
Chlorine Contact Tank Recoating	Removal and recoating	Vallecitos Water District
Well No. 9 Wellhead Facilities	2,000 gpm	City of Oceanside
Well 10, 11 Wellhead	1,600 gpm each	City of Oceanside
Toland Road Microturbine Project	N/A	Ingersoll Rand Energy/Ventura County Regional Sanitation District
Quail Valley Low Pressure Analysis	N/A	Eastern Municipal Water District
Mission Canyon Water System Analysis	2 - 2,000 gpm pump stations	Eastern Municipal Water District

DANIEL R. FERGUSON (DAN)
Field Technician

EDUCATION
National University, BS Financial Management
Alpena Community College, Alpena, MI, Associates in Applied Science in Concrete Technology

CERTIFICATIONS
International Code Council (ICC), Soils and Reinforced Concrete #1078342
American Concrete Institute (ACI), Concrete Field Testing Technician Grade 1 #00972642
Caltrans Testing Methods, Nos. 125 AC, 125 AGG, 216, 226, 231, 504, 518, 523, 524, 533, 539, 540, 556, 557
City of San Diego, Reinforced Concrete #1224
Troxler Electronic Laboratories, Inc., Nuclear Gauge Certification

EXPERIENCE & RESPONSIBILITIES

Dan has provided quality control and assurance on construction projects for over 20 years. He is well-respected in the industry and a very conscientious technician. Dan possesses the technical skills required to ensure the construction process is being conducted in substantial compliance with project plans, contracts, and specifications. His experience includes 15 years as a field supervisor and assisted with the development and implementation of procedures and guidelines for project documentation, distribution and tracking. He has worked as a construction materials technician, concrete field technician, and senior engineering technician. Dan's responsibilities include providing continuous and periodic special inspection services for soils, asphalt, subgrade treatment, reinforced concrete and other various construction materials in the capacity of quality assurance or quality control for hundreds of projects.

PROJECT EXPERIENCE

- **Interstate 805 Widening, San Diego & National City, CA:** Dan provided observation and testing of asphalt concrete during this $8.6 million project. Work consists of widening of the freeway with JPCP, construction of a barrier, and modification of electrical systems from the Prospect Avenue overcrossing to the Plaza Boulevard undercrossing.
- **Community Corridor Project, National City, CA:** Improvements to three important community corridors in the city. The project included 2 miles of Class II bicycle facilities on 4th Street, including bicycle detector loops, bicycle boxes, installation of high-visibility crosswalks, curb extensions, pedestrian refuge islands and restriping. On Coolidge Avenue, pedestrian enhancement and traffic calming measures included new sidewalks, ADA curb ramps, curb extensions, crosswalks, a raised speed table, signing and striping and lighting enhancements. On D Avenue, the project included 2.5 miles of Class II bicycle facilities, including bicycle detector loops and boxes, high-visibility crosswalks, a roundabout, curb extensions, pedestrian refuge islands, lighting enhancements and restriping along the entire length of D Avenue. replacement of air handling unit AC-4. Dan provided observation and testing of asphalt concrete, aggregate base material, subgrade, and paving.
- **8th Street Smart Growth Revitalization, National City, CA:** This project is an extension of the National City Streetscape project that ties together the City's redevelopment efforts. The western portion of the project, between the 8th Street Trolley Station to National City Boulevard, included new lighting with historic banners, way finding signs, trees, Class II bicycle lanes, lighting for the freeway underpass, medians and ADA improvements. The eastern portion, between National City Boulevard and Highland Avenue, narrowed that segment of 8th Street to one lane in each direction, with left turn lanes at intersections, corner bulb-outs for traffic calming, enhanced crosswalk signing and striping, lighting with historic banners, bike racks, landscaping, ADA improvements, medians and angled parking on the south side of the street. The project also included a new "Market Square" on A Avenue and 8th Street for farmers markets and street festivals. Dan provided sidewalk observation and testing.
- **Golden Avenue Rowhomes, Lemon Grove, CA:** Construction of 22 three bedroom rowhome condominium units with attached garages, six off-street parking spaces, driveways, sidewalks, and 7,605 square-feet of open space with a landscaping, a barbecue pit, and a play lawn, which will also be used as a bioretention basin for stormwater to comply with stormwater regulations. A 26 foot high retaining wall was constructed along the northern property line. Dan provided observation and testing of grading, utility trenching, and wall backfill.
- **Town Center Parkway Widening, Phase I, Santee, CA:** Dan provided observation and testing of curb and gutter, and aggregate base material for this $3.5 million infrastructure improvement project, which consisted of widening of the road by 13 feet, and installation of a sidewalk, landscaping and underground utilities along 800 feet of the road.
- **Mid-City Rapid Bus Project, San Diego, CA:** The $44 million project includes 5 miles of a high speed, limited stop bus line through North Park, City Heights and the College areas of San Diego, and is being constructed in collaboration with MTS. Features include new stations with customized shelters, seating, street lighting, street reconfiguration, real time bus arrival signs and curb pop-outs. Dan provided observation and testing of subgrade, aggregate base material, and paving, as well as concrete quality control.

Attachment C

Tom Schechter
Civil Inspector

Professional Registration
Geographic Information Systems Certificate

Construction Inspection Technology Certificate

Education
San Diego State University

Mesa College

Baccalaureate Studies

Qualifications
Thomas Schechter has 26 years of experience in Engineering and Construction services. His responsibilities include coordination of consultant and contractor services, cost estimation preparation, critical path method scheduling, specification writing, drafting of record drawings, plan review, inspection of large diameter pipeline, water conveyance facility construction, assisted with the contractor submittal review and monthly pay requests. His Geographic Information System Division responsibilities have included asset data collection using Global Positioning Systems (GPS), development of pipeline and pipeline attribute map layers that accounted for the construction of an attribute table for over 5,000 facilities.

Project Experience
Downtown Village Streetscape Improvement Project, *City of La Mesa* – Mr. Schechter acted as resident engineer in charge of managing this 6 million dollar enhancement of the City of La Mesa's old town business district. This project included the complete removal of existing pedestrian sidewalks and associated curb lines, replacement of relocated curb and new decorative sidewalk, installation of "Silva Cell" storm water treatment systems at new tree well locations, and pavement replacement along the alignment. The project also included realignment of existing storm drain systems and installation of approximately 2500 linear feet of new 8-inch sewer main. Mr. Schechter's duties included day to day management of this project, coordinating review of project submittals, answering RFI's, tracking installed quantities and coordinating with the contractor on preparing monthly progress reports. He also reviewed contractor change order requests and provided recommendation to the project owner, prepared and issued field changes in conjunction with the design engineer, and reviewed contractor payroll records for compliance with labor laws.

Reservoir Structural Analysis, *City of Oceanside* – This project included the assessment of the condition of steel and concrete reservoirs, including structural analysis and condition assessment. Responsibilities included daily inspection of the condition assessment activities at each reservoir, which included test patches to assess pre-stressing wire corrosion and interior dive inspections by others. Mr. Schechter provide inspection, coordination, communication, and field report and photo documentation of this phase of the project.

San Diego County Water Authority Pipeline P5EII, *San Diego* – This project consisted of a ten-mile long 108-inch diameter pipeline and associated appurtenance placement. This project also contained two tunnels, one 400-foot soft earth tunnel excavated with a tunnel shield, and one six hundred-foot hard rock tunnel mined with a drill and blast technique. Responsibilities included daily field reporting and inspection of sitework, pipe placement, pipe joint welding, pipe tape wrap and backfill, tunnel excavation, and reinforcing and concrete placement for all pipeline appurtenances. Also responsible in assisting the San Diego County Water Authority project management with project administration duties. Administration duties included review of contractor submittals, construction schedule review, and monthly pay request review.

San Diego 18/21 Flow Control Facility, *San Diego County Water Authority* – This is a dual flow control facility consisting of 24-inch and 36-inch steel pipe valve and meter appurtenances and controls constructed in a 2,400 sf concrete slab on grade and concrete masonry unit building. Responsibilities included daily field reporting and inspection of facility construction that included sitework, reinforcing placement, concreted placement, concrete masonry unit placement, mansard roof framing, and field welding of steel pipe. Responsible for assisting the San Diego County Water Authority project manager with the administrative duties of the facility for owner acceptance. Administration duties included review on contractor submittals, construction schedule review, monthly pay request review, change order negotiation, and project closeout documentation.

Rainbow Point Road, *Bryce Canyon, Utah* – This project consisted of a seven-mile section of a two lane highway rehabilitation that included reclaiming the existing asphalt concrete, replacing all drainage systems, placing several Keystone retaining wall systems, and preparing a new road grade. Responsibilities included inspection of all roadwork and system installation, and assisting with the administration of the project management. Administration duties included review of contractor submittals and monthly pay request review.

Santa Barbara Airport Runway 15/33 Rehabilitation, *Santa Barbara* – This project consisted of the pavement restoration that provided an asphalt concrete overlay for two runways and miscellaneous taxiways at the Santa Barbara Airport. Responsibilities included all special inspection and testing of material placement for project compliance. Administration duties included daily field reports for construction activities and processing test reports for contractor payment.

Grossmont Hospital and Parking Structure, *City of La Mesa* – This project consisted of a seven story post tension concrete parking structure. Responsibilities included all special inspection and testing of material placement for steel weld and high strength bolting. Administrative duties included preparing daily field reports which described daily site activities and review of project information for change order negotiation.

Attachment C

SCOTT VACULA, PE
Senior Materials Engineer, Senior Project Manager

EDUCATION
Rochester Institute of Technology, BS, Civil Engineering Technology
State University of New York, College of Technology, AAS, Construction Technology

CERTIFICATIONS
State of California Professional Engineer #72600
Q/C Resource, Nuclear Gauge Certification #1400

MEMBERSHIPS & ASSOCIATIONS
American Society of Civil Engineers (ASCE)

EXPERIENCE & RESPONSIBILITIES

Scott is a Registered Civil Engineer with 16 years of diverse industry experience ranging from municipal, infrastructure, education, healthcare, commercial facilities, and residential construction. He is responsible for project management of construction quality control and assurance programs, performing geotechnical inspections at jobsites, preparing project estimates, and reviewing SCST's material laboratory test results.

PROJECT EXPERIENCE

- **Interstate 805 Widening, San Diego & National City, CA:** Scott served as Project Manager during testing and inspection for this $8.6 million project. Work consists of widening of the freeway with JPCP, construction of a barrier, and modification of electrical systems from the Prospect Avenue overcrossing to the Plaza Boulevard undercrossing.
- **8th Street Safety Enhancements, National City, CA:** The project includes traffic safety enhancements on 8th Street between J Avenue and Palm Avenue within the public right of way to calm traffic, reduce collisions and improve pedestrian access. Project elements included reduction of travel lanes from four to three lanes to construct left-turn pockets at intersections and key commercial driveways, ADA improvements, corner bulb-outs, refuge and landscaped islands, new traffic signals, signal modifications and retaining walls for slope stabilization between K and L Avenues. Funding was provided through various sources, including a Highway Safety Improvement Program (HSIP) grant and TransNet Proposition A. Scott served as Principal Engineer, providing project management and engineering support.
- **Golden Avenue Rowhomes, Lemon Grove, CA:** Scott served as Senior Engineer, providing oversight of testing and inspection services during the construction of 22 three bedroom rowhome condominium units with attached garages, six off-street parking spaces, driveways, sidewalks, and 7,605 square-feet of open space with a landscaping, a barbecue pit, and a play lawn, which will also be used as a bioretention basin for stormwater to comply with stormwater regulations. A 26 foot high retaining wall was constructed along the northern property line.
- **North Side Interior Road and Utilities, San Diego International Airport, San Diego, CA:** Scott served as Senior Engineer, providing project management and engineering support for this $20.1 million project, consisting of the construction and completion of the road and utilities on 6.3 acres on the north side of the airport. Roadwork included grading, paving, marking, street improvements, dewatering and flow control, traffic signals and irrigation. The utility portion of the project included storm drain systems, fire lines, potable water and irrigation lines, gravity and force main sewer with lift station, gas lines, and electrical distribution and communication systems. All testing was performed in accordance with Caltrans, Greenbook, and San Diego Regional Standard Drawings Specifications.
- **Magnolia Avenue and Palm Glen Drive Median Project, Santee, CA:** Scott served as Senior Engineer, providing project management and engineering support during the installation of a raised median on Magnolia Avenue in front of Palm Glen Drive to prevent left turn movements onto Magnolia Avenue. The project was part of the Highway Safety Improvement grant program awarded to the City.
- **Mission Gorge Road Median Installation, Santee, CA:** Scott served as Senior Engineer, providing project management and engineering support during the installation of a raised median on Mission Gorge Road west of Magnolia Avenue to prevent left turn movements onto Railroad Avenue. The project was partially funded through the Highway Safety Improvement Program.
- **Rehabilitate Cross Taxiway B8 and Terminal Aprons, San Diego International Airport, San Diego, CA:** Scott serves as Senior Engineer, providing engineering support for this project will reconstruct portions of Taxiway B8 and Terminal 1 and Cargo aprons by replacing Portland cement concrete and joint repairs on the active airfield.
- **Air Freight Building Pavement Rehabilitation, San Diego International Airport, San Diego, CA:** Scott served as Principal Engineer, providing project management and engineering support during the demolition, grading and hot mix asphalt concrete pavement rehabilitation on 0.83 acres.

Appendix - Commendations

BEACHGRASS
CAFE

February 3, 2013

CMAA San Diego Chapter Office
PO Box 41202
Long Beach, CA 90853

RE: 2014 Project Achievement Award – City of Solana Beach Highway 101 Westside Improvements Project

To Whom it May Concern:

As the Manager of the Beach Grass Café, I was a witness to the City of Solana Beach's Highway 101 Westside Improvements project. The complexities of the project required extensive coordination between the City, business owners, and residents. I applaud the efforts of the City of Solana Beach, IEC and others involved. I was kept up-to-date on all construction activities and this allowed me to feel confident our customers were minimally affected.

After completion of this project, I can say the project positively enhanced the Beach Grass Café. The addition of the upscale landscaping and benches has elevated the area to what people have come to expect when visiting the City of Solana Beach.

Sincerely,

Kevin Nelson
Beach Grass Cafe
hello@beachgrasscafe.com

159 South Hwy. 101 • Solana Beach, CA 92075 858.509.0632 • hello@beachgrasscafe.com • www.beachgrasscafe.com

Attachment C

February 15, 2014

CMAA San Diego Chapter Office
PO Box 41202
Long Beach, CA 90853

RE: 2014 Project Achievement Award – City of Solana Beach Highway 101 Westside Improvements Project

To Whom it May Concern:

As the owner of Bob's Barber Shop at 207 N. Highway 101 in Solana Beach, CA I welcome the Highway 101 Westside Improvements Project as change for the better. My business is dependent upon walk-in clientele, which has increased since the project's completion.

During construction, the City, the Contractor, and IEC were helpful in keeping the business owners and residents apprised of the schedule of activities, which allowed us to better plan for necessary interruptions of business.

Sincerely,

Robert V Castro

Bob Castro
Bob's Barber Shop

February 3, 2014

CMAA San Diego Chapter Office
PO Box 41202
Long Beach, CA 90853

RE: 2014 Project Achievement Award – City of Solana Beach Highway 101 Westside Improvements Project

To Whom it May Concern:

I am the owner of Java Depot and wanted to express how the City of Solana Beach's Highway 101 Westside Improvements project has positively impacted my business. During the streetscape project, I made the decision to concurrently improve my building to match the updated look of the surrounding area. I couldn't be happier at the end result. As an owner of a business it is very important to maintain and update my business site to improve foot traffic. After completion of the project I have noticed more foot traffic and in turn more customers. I couldn't be happier with the finished product.

Sincerely,

Brian Fuller
Java Depot
javadpo@aol.com

Attachment C

Helix Water District

Setting standards of excellence in public service

7811 University Avenue
La Mesa, CA 91941-4927

(619) 466-0585
FAX (619) 466-1823
www.hwd.com

August 27, 2009

Reference: Letter of Recommendation for Infrastructure Engineering Corporation

To whom it may concern:

Infrastructure Engineering Corporation (IEC) provided professional engineering services to the Helix Water District for the design of several projects including the Calavo Pump Station, El Cajon Tank Rehabilitation, Lake Jennings Valve Vault, and most recently the final design of the Homelands Tank and Pipeline Project.

IEC has prepared preliminary design reports, final plans and specifications, and has provided construction inspection services.

The District is pleased with the services provided by IEC and considers them a valuable resource for engineering services. We are pleased to recommend IEC for their dedication, responsiveness, and quality of service.

Sincerely,

Carlos Lugo, P.E.
District Engineer

VALLECITOS WATER DISTRICT
A PUBLIC AGENCY
201 Vallecitos de Oro • San Marcos, California • 92069-1453 Telephone (760)744-0460

March 12, 2009

CMAA San Diego Chapter
Project Achievement Award Program
PO Box 41202
Long Beach, CA 90853

Reference: Letter of Recommendation for Infrastructure Engineering Corporation's Contributions to the Twin Oaks Reservoir Tank No. 2

To Whom It May Concern:

I have worked with Infrastructure Engineering Corporation (IEC) since 2005. Since then, I have had numerous opportunities to witness the dedication, effort, and quality that IEC devotes to water and wastewater engineering projects. Their staff has exhibited expertise in all facets required for a project of this magnitude and complexity.

Beginning in late 2004 through April 2008, IEC performed preliminary engineering, final design, and construction management and inspection services for the Twin Oaks 40 MG Reservoir Tank No. 2 Phases 1-3 project. Being the largest structure of its kind in the world, and the highest profile project the District has ever undertaken the District was very pleased to have IEC as a part of the team.

IEC and the various subconsultants and contractors went above and beyond our expectations to supply the District with a project constructed at the highest quality. The relationship between the various contractors and the construction manager was extremely professional. This, combined with knowledge of construction and contract administration, produced a seamless and successful project.

The complexities of this project required extensive coordination between the District and the San Diego County Water Authority. However the team's communication was outstanding and IEC kept me up-to-date on all design and construction activities throughout the project. This experience was outstanding from start to finish and would recommend this firm to anyone looking to design and construct a project of this magnitude.

Vallecitos Water District

Sincerely,

James H. Gumpel, PE
Project Manager

FAX numbers by Department: *Administration* (760) 744-2738; *Engineering* (760) 744-3507; *Finance* (760) 744-5989;
Meadowlark Water Reclamation Facility (760) 744-2435; *Operations/Maintenance* (760) 744-5246
e-mail: vwd@vwd.org http://www.vwd.org